

MATHEMATICS





Primary
Second Term

Chapter





Lesson (61): Money

Outcomes:

- Differentiate between Egyptian banknotes
 (L.E. 1, 5, 10, 20, 50, 100)
- •Estimate the value of different items.

Lesson (62): Decomposing and combining banknotes Outcomes:

- Combine L.E. (5, 10, 20, 50, 100) notes to create a given total.
- Decompose large denominations of money into smaller denomination.

Lesson (63): Combination of banknotes using different ways

Outcomes:

- Discuss different ways to combine banknotes to create a given total.
- Lesson (64): Combining banknotes

Outcomes:

- Combine banknotes using 120 chart to create a given total of money.
- Lesson (65): How to spend money

Outcomes:

•Use the budget to spend money.

Laconn (66)

- (A) Addition money story problems Outcomes:
- Solve one step addition story problems involving money
- (B) Subtraction money story problems Outcomes:
- Solve one step subtraction story problems involving money.

Lesson (67):The place value Money mat Outcomes:

- •Apply place value money mat concepts to represent money.
 Lesson (68):
- (A) Adding amounts of money without regrouping Outcomes:
- *Add amounts of money without regrouping using money mat.
 (B) Adding amounts of money with regrouping ones
 Outcomes:
- Add 2 and 3-digit numbers with regrouping ones using money mat.
- (C) Adding amounts of money with regrouping tens
 Outcomes:
- Add 2 and 3-digit numbers with regrouping tens using money mat.

Lesson (69):

- (A) Subtracting amounts of money without regrouping Outcomes:
- Subtract 2 and 3-digit numbers without regrouping.
- (B) Subtracting amounts of money with regrouping tens
 Outcomes:
- Subtract 2 and 3-digit numbers with regrouping.
- (C) Subtracting amounts of money with regrouping hundreds

Outcomes:

- Subtract 2 and 3-digit numbers with regrouping hundreds.
- Lesson (70): Addition and subtraction money story problems with regrouping

Outcomes:

Solve addition and subtraction money story problems.



Adam, you cannot take this chocolate without giving me money.

What do you mean?

Let's know what the seller means by money in this chapter.

diale litter



Money



Each country has its own currency:

In Egypt:

Our currency is Egyptian pound, it takes the two forms coins and banknotes.



1 Pound L.E. 1





5 Pounds L.E. 5





10 Pounds L.E. 10





Daily Practice:

- · Help your child draw a circle around the first day at school on the calendar.
- Ask your child to write the name of the current day and its date.

Key words: Money - Currency - Egyptian pound - Banknotes.





20 Pounds L.E. 20





50 Pounds L.E. 50





100 Pounds L.E. 100





200 Pounds L.E. 200



- L.E. represents (Egyptian pound)
- L.E. before each number tells that the number is money.





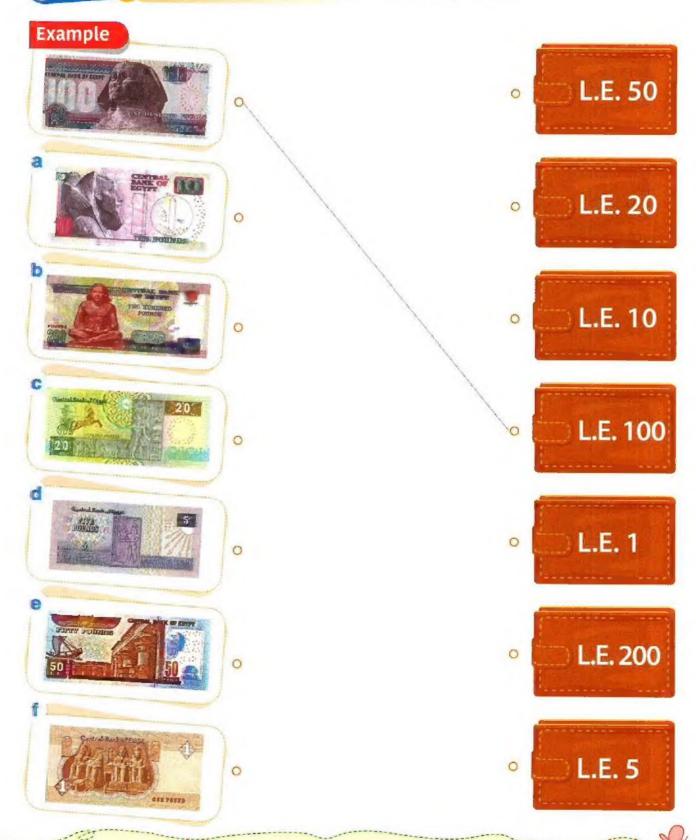
Parents' Tips:

Explain to your child that before using money people used items as (food, cloth or farm animals) to
exchange between them but nowadays we use money to get everything we need.





Activity 1 Match the value with its banknote picture:



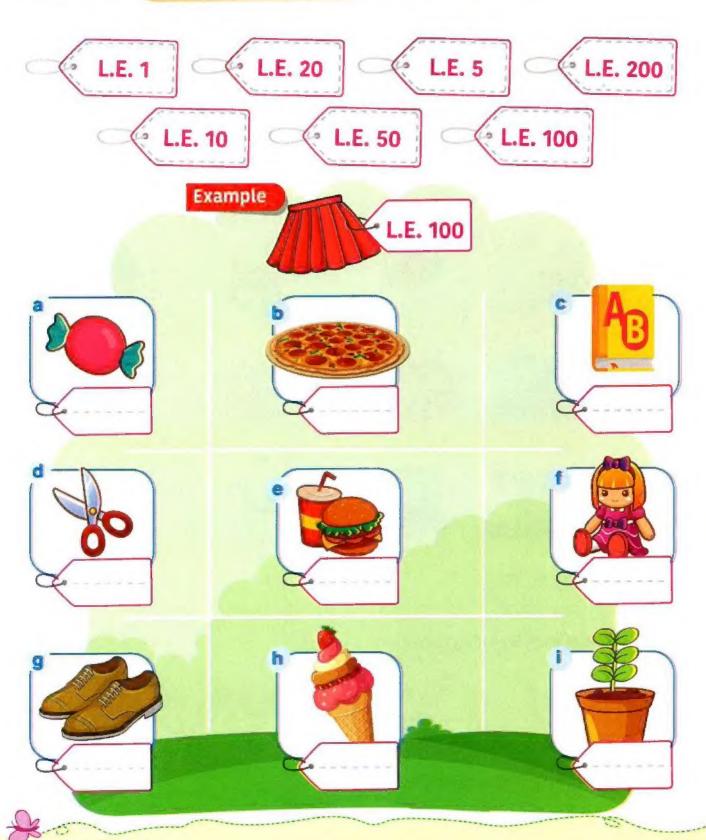
Parents' Tips:

Help your child learn the value of each banknote.



(Activity 2

Use the given prices to estimate the cost of each object: (You can use each price more than one time.)



Parents' Tips:

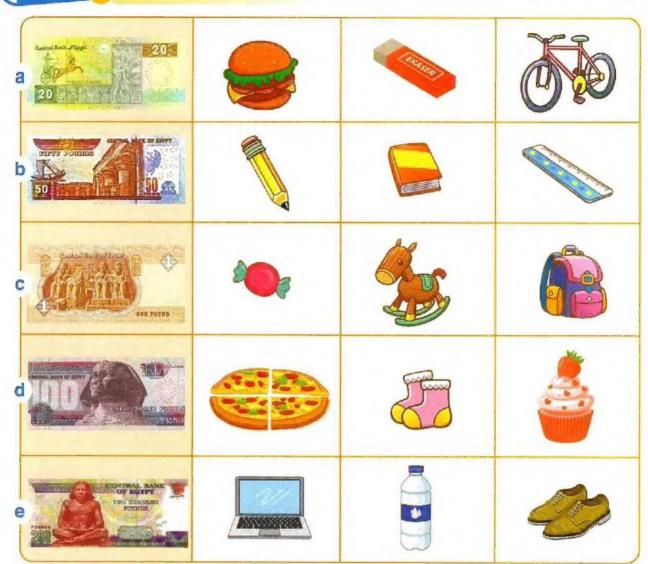
- Encourage your child to estimate the price of different objects around him/her.
- · Ensure that your child can use the banknotes in daily life.

Key words: Estimate





Activity (3) Estimate, then circle what you can buy with the given money:





• The value of each Egyptian banknote.



How to estimate the cost of different items.









Decomposing and Combining banknotes

Decomposing banknotes

It means that we can use a denomination of:

a large banknote

to get

a set of small banknotes

We can show L.E. 50 using:





Combining banknotes

It means that we can use:

a set of small banknotes

to get

a denomination of a large banknote



We combine 2 notes of L.E. 100 to represent



We combine 1 note of L.E. 100 and 2 notes of L.E. 50 to represent



We can use more than one way to decompose or combine banknotes.



Daily Practice:

- Encourage your child to look at the calendar and ask him/her to draw a circle around the day he/she spent in school.
- Ask your child to tell you today's date.

Key words: Decompose - Combine





Activity

(1)

Complete, then match each set of money with its equal value of banknote:

Example





L.E. + L.E.













L.E. + L.E.









L.E. 5 + L.E. 5

















L.E. + L.E. + L.E. + L.E. + L.E.



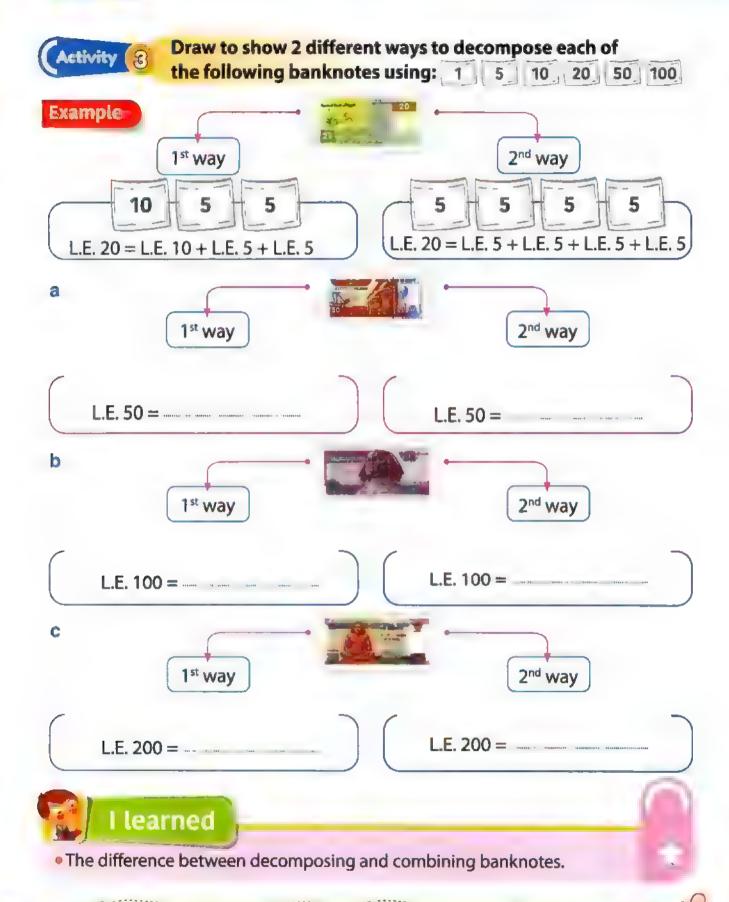
Encourage your child to recognize the equal amounts of money.















Combination of banknotes using different ways



I have L.E. 136.
I can buy the plane.



I have L.E. 136.







Daily Practice:

Encourage your child to look at the number chart and ask him/her to draw a circle around the date
of today, then ask him/her to tell you the name of the current month.

Key words: Combination







Circle the combination of banknotes that can be used to purchase each item:











Invite your child to make a combination of some banknotes for buying some objects.







Write the combination of money, then tick (✓) the equal amount in each row:



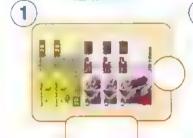




L.E. 152

L.E. 252













2















d

Parents' Tips:

- Help your child recognize the equal amounts of money.
- Encourage your child to know how to use combination in daily life. Key words: Equal amount





(Activity (3) Color to make an equal combination of money:

| Example L.E. 76 | 20 20 10 10 5 1 |
|--------------------|----------------------|
| a L.E. 70 | 20 20 10 10 5 1 1 |
| b L.E. 47 | 20 20 10 10 5 1 1 |
| c L.E. 66 | 20 20 10 10 5 1 1 |
| d L.E. 32 | 20 20 10 10 5 1 1 |
| e L.E. 51 | 20 20 10 10 10 5 1 1 |
| f L.E. 27 | 20 20 10 10 5 1 1 |
| g L.E. 11 | 20 20 10 10 5 1 1 |







Answer the following questions to make the combination of banknotes used to buy each item:







L.E. 5







L.E. 5

L.E. 100

L.E. 80

L.E. 20

L.E. 15

Example

Show the same amount of L.E. 80 using L.E. 20 notes.



a Show the same amount of L.E. 5 using L.E. 1 notes.







L.E. 80 = L.E. 20 + L.E. 20+ L.E. 20 + L.E. 20 L.E. 80

b Show the same amount of L.E. 15 using L.E. 5 notes.



c Show the same amount of L.E. 20 using L.E. 10 notes.



L.E. 20 =

L.E. 20

L.E. 15 =

L.E. 15

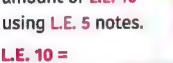
Show the same amount of L.E. 100 using L.E. 50 notes.





L.E. 100

d Show the same amount of L.E. 10 using L.E. 5 notes.





L.E. 10



- How to combine banknotes using different ways.
- How to use banknotes to create an equal amounts of money.







To find the total amount of money, you can use the 120 chart:





| *det | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 0 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 10 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 10 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| O, | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 60 | ¹ 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 0 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 10 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 0 | , 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 00 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 |
| 10 | 1111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |

First

Start with the greater banknote 20, then go three rows down and count by 10

(20,30,40,50)

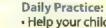
Second

Start from 50, then move forward and go right while counting by 1 (51,52,53,54,55)

Third

L.E. 50 + L.E. 5 = L.E. 55

- · When we count by 1, we move forward 1 place each time.
- When we count by 10, we simply move down one row each time.



- Help your child draw a circle around today's date on the calendar.
- Ask your child to write the name of the current day and its date.
- Ask your child to count the number of girls and boys in his/her class and help him/her to color each number in the number chart.

Key words: Count by 10 - Move down -120 chart - Count by 1- Move forward



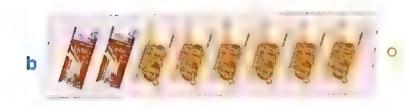


Use the 120 chart to combine money, then match:





















Encourage your child to use the 120 chart for adding the total amounts of money.







Tick (✓) the object you can buy according to the money you have each time:









Draw to show the combination of banknotes to create the total amount:





L.E. 18

Combine to find the total amount of money:

Example

L.E. 20 + L.E. 10 + L.E. 1 + L.E. 1 + L.E. 1

L.E. 33

L.E. 50 + L.E. 20 + L.E. 5 + L.E. 5 a

L.E. 100 + L.E. 20 + L.E. 20 + L.E. 20 b

L.E. 200 + L.E. 100 + L.E. 100 + L.E. 10 Ç

L.E. ...

d L.E. 200 + L.E. 50 + L.E. 50

L.E. 100 + L.E. 100 + L.E. 200



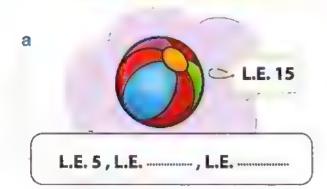
Ensure that your child learn the combination of banknotes.





Activity (

Complete the combination of money which children need to buy each item in the store:















- How to use 120 chart to combine banknotes.
- How to use banknotes to create equal amounts of money.







How to spend money



Yassin had a budget of L.E. 400 to spend at the toy shop.





Daily Practice:

Encourage your child to look at the number chart and ask him/her to draw a circle around the days
he/she spent in school, then ask him/her to tell you the name of the day and the name of the month.
 Key words: Budget - Spend money

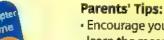


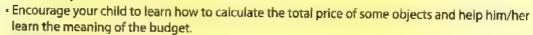




Look at the previous picture, then complete to help Yassin buy toys without exceeding his budget (L.E. 400):

| Item | Price | If he can buy, tick (✓). If he can't buy, tick (✗). | The rest of the budget |
|---------|--|--|--|
| Example | L.E. 100 | (√) still in the budget because L.E. 100 < L.E. 400 | L.E.400 – L.E. 100 = L.E. 300 |
| | His budg | et now is L.E. 300 | |
| Example | L.E. 350 His budg | (X) out of the budget because L.E.350 > L.E.300 et now is L.E. 300 | Still L.E. 300 |
| | | | |
| a B M C | ************************************** | and the second section of the second section of the second section of the second section secti | 100 % 5 % 10 mm 10 |
| | His budge | et now is L.E | |
| b | -34c hour | Med on we be Middle office as accuracy of California and the second of t | NATE - 01-668-52- 149 |
| | His budge | et now is L.E. | |
| С | *1778/01/10 | | |
| | Yassin has | L.E. — left from his bud | get. |





Key words: The rest of budget

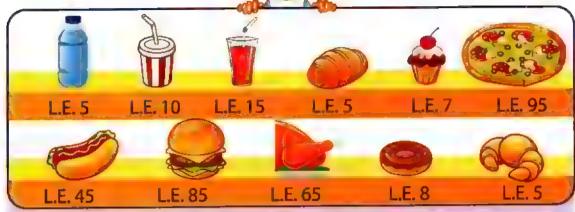






Circle the two items that Sara can buy according to her budget:





a My budget for breakfast isL.E. 50. Circle the 2 itemsI can buy.



b My budget for lunch isL.E. 100. Circle the 2 itemsI can buy.



My budget for dinner isL.E. 75. Circle the 2 itemsI can buy.







L.E. 10

L.E. 65

L.E. 8.



Parents' Tips:

Encourage your child to calculate the total amounts of money used for buying some objects.

Key words: Rest of budget





Color Yes (((*)) or No ((**)) according to the budget of each kid:





I learned

- The meaning of the budget of money.
- How to use a budget of money to buy some objects.





(A) Addition money story problems



To solve the story problem, we have to figure out whether we should add or subtract.



Addition story problems



Ahmed and Mai went to the clothes store.

Ahmed bought a T-shirt for L.E. 52 and Mai bought a skirt for L.E. 46.

How much money did they pay all together?

They paid = L.E. 52 - 4 L.E. 46 - 3 L.E. 98



We need to add when we found the words:

- All together
- Have in all
- Both have
- Total sum

Second: Add the tens place.

First: Start adding with ones place.

| Tens | Ones |
|------|------|
| 65 | 20 |
| 9 | 8 |

Daily Practice:

• Encourage your child to look at the calendar and ask him/her to draw a circle around today's date.

Ask your child to tell you the name of today and the name of the day before and the day after.

Key words: Story problem - All together - Have in all - Both have Total sum





Activity

Read, think then solve:

a Saily saved L.E. 28 this week.

Her brother Ali saved L.E. 51 too.

How much money do both of them have now?

What they both have =



b Nancy bought a bag for L.E. 52 and a pair of shoes for L.E. 33.

How much money did she pay in all?

What she will pay in all =



Rania bought a Math book for L.E. 63
 and a pencil for L.E. 5.

How much money did she pay?

What she paid =







Encourage your child to solve some story problems about addition.





(B) Subtraction money story problems



How can we help Adham to find the amount of money left with him?

Adham had L.E. 58. He bought a toy for L.E. 32.
 How much money was left with him?



Remember:

We have to figure out whether we should add or subtract to find the answer.

The money left with him =













We need to subtract when we found the words:

- Left with
- The rest
- The remainder



Second: Subtract the tens place.

First: Start subtracting once place.

| | Tens | Ones |
|---|--------|--------|
| _ | 5 3 | 8 2 |
| | 2 | 6 |



Daily Practice:

• Encourage your child to look at the calendar and ask him/her to draw a circle around today's date.

Key words: Left with -The rest -The remainder





Activity 2 Read, think, then solve:

a Sara had L.E. 89 in her purse,
she gave her brother L.E. 27.
How much money was left with her?
The money left with her =





b Amar's father gave him L.E. 45 to buy a sandwich, he bought a sandwich for L.E. 25.

How much money remained with him?

The remainder with Amar =



Farid had L.E. 69. He bought a set of stories for L.E. 60.

How much money was left with him?

The money left with him =





How to use addition and subtraction to solve money story problems.







The place value money mat



How can we represent amount of money using the place value / money mat?

Hundreds Tens Ones L.E.

- To build L.E. 235 on the place value/money mat.
- We will work with money but only L.E. 1 , L.E. 10 and L.E. 100

Place value/money mat

| Hundreds | Tens | Ones |
|----------|----------|------|
| 100 | 10 10 | |

L.E. 235



Find how many L.E. 1 in the ones place: 5

Second

Find how many L.E. 10 in the tens place: 3

Third

Collect how many L.E. 100 in the hundreds place: 2

Daily Practice:

- Invite your child to count the number of days he/she spent in school and ask him/her to draw
 a circle around the total number in the 120 chart.
- Ask your child to tell you the name of today and the name of day before and the day after.
 Key words: Place value Money mat

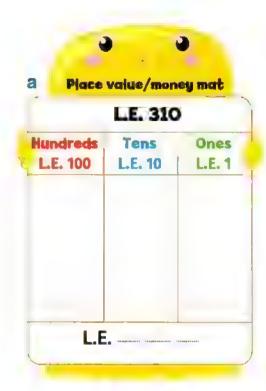






Build the following amounts of money on the place value/money mat:













•Encourage your child to build some amounts of money using the place value/money mat.



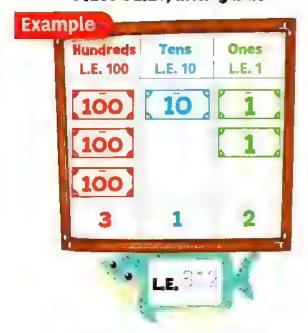


Write the amount of money according to the place value/money mat:

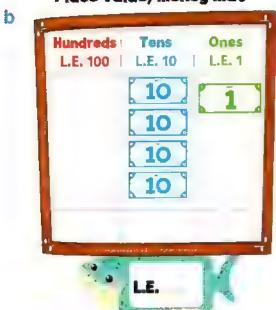
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C

Place value/money mat



Place value/money mat



Place value/money mat



Place value/money mat





How to build an amount of money using the place value/money mat.







(A) Adding amounts of money without regrouping

We can add L.E. 134 ⊕ L.E. 211 using the place value/money mat



| Hundreds L.E. 100 | Tens L.E. 10 | Ones L.E. 1 |
|----------------------|-----------------|----------------|
| 100 | 10 | 1 1 1 1 1 |
| 1 | 3 | 4 |

| Hundreds L.E. 100 | Tens L.E. 10 | Ones L.E. 1 |
|----------------------|-----------------|----------------|
| 100 | [10] | 1 |
| 2 | 1 | 1 |

| | Hundreds L.E. 100 | Tens L.E. 10 | Ones L.E. 1 |
|---|----------------------|--|----------------|
| 8 | 100 | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | 1 1 1 1 |
| | 3 | 4 | 5 |

First

Add banknotes in the ones place L.E. 4 + L.E. 1 = L.E. 5

Second

Add banknotes in the tens place L.E. 30 + L.E. 10 = L.E. 40

Third

Add banknotes in the hundreds place L.E. 100 + L.E. 200 = L.E. 300

The result will be L.E. 3 4 5

| | Hundrode L.E. 100 | Tens L.E. 10 | Ones L,E, 1 |
|---|----------------------|-----------------|----------------|
| | 1 | 3 | 4 |
| 4 | 2 | 1 | 1 |
| | 3 | 4 | 5 |



First : Add the ones digits

4 + 1 = 5

Second: Add the tens digits

3 + 1 = 4

Third: Add the hundreds digits

1 + 2 = 3

Daily Practice:

Encourage your child to look at the calendar, ask him/her to draw a circle around today's
date and a rectangle around yesterday date.

Key words: Add without regrouping - Result - Place value - Money mat





Activity 1 Write the total amount of money, then match:

a L.E 152 + L.E 23 = L.E.

| Hundreds L.E. 100 | Tens L E. 10 | Ones L.E. 1 | | Hundreds L.E 100 | Tens L E. 10 | Ones L.E 1 | |
|----------------------|-----------------|----------------|---|---------------------|-----------------|---------------|---|
| 100 | 10 10 10 10 | 1 | 4 | | 10 | | С |
| 1 | 5 | 2 | | 0 | 2 | 3 | |

L.E. 536

b L.E 400 + L.E 136 = L.E.

| Hundreds L.E. 100 | Tens LE 10 | Ones LE 1 | | Hundreds L.E. 100 | Tens L E 10 | Ones E 1 | |
|----------------------|---------------|--------------|---|----------------------|----------------|-------------|---|
| 100 100 | | | 4 | 100 | 10 | | C |
| 4 | 0 | 0 | | 1 | 3 | 6 | |

L.E. 703

C L.E 184 + L.E 310 = L.E.

| Hundreds L.E. 100 | Tens LE 10 | Ones L.E. 1 | | Hundreds L.E. 100 | Tens L.E. 10 | Ones | |
|----------------------|----------------------------------|----------------|---|----------------------|-----------------|------|---|
| 100 | 10 10 10 10 10 10 10 10 | | 4 | 100 100 | 10 | | C |
| 1 | 8 | 4 | | 3 | 1 | 0 | |

L.E. 175

d L.E 603 + L.E 100 = L.E.

| Hundreds L.E. 100 | Tens L.E. 10 | Ones LE i | | Hundre L.E. 1 | | Tens | Ones LE 1 | |
|-------------------------------|-----------------|--------------|----|------------------|---|------|--------------|---|
| 100 100 100 100 100 100 | | 1 | ₽, | 100 | 2 | | | 0 |
| 6 | 0 | 3 | | 1 | | 0 | 0 | |

L.E. 494



Parents' Tips:

Help your child solve addition problems without regrouping using the place value /money mat.





(B) Adding amounts of money with regrouping ones

We can add L.E. 218 & L.E. 123 using the place value/money mat





First

We add banknotes in the ones place LE STATE 11. When the sum of the banknotes in the ones place is bigger than LE 3, we regroup ten LE 1 as one L.E. 10.

Second

We add banknotes in the tens place. L.E. 10 + L.E. 20 + L.E. 10 = L.E. 40

Third

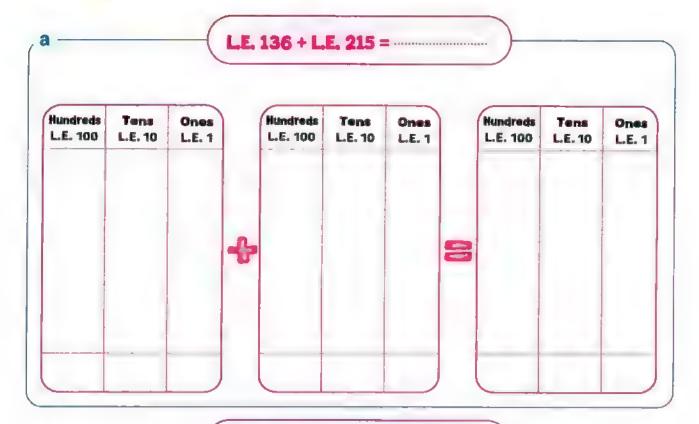
We add banknotes in the hundreds place. L.E. 200 + L.E. 100 = L.E. 300



- Invite your child to count the number of days he/she spent in school and ask him/her to draw a circle around the total number in the 120 chart.
- Ask your child to tell you the name of today and the name of day before and the day after.
 Key words: Regrouping ones Add



Activity 2 Solve the following problems using the place value/money mat:





- Encourage your child to solve many addition problems.





(C) Adding amounts of money with regrouping tens

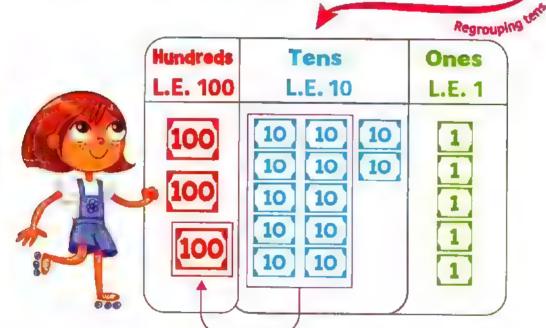
We can add L.E. 182 ⊕ L.E. 143 using the place value/money mat



| Hundreds L.E. 100 | Tens L.E. 10 | Ones L.E. 1 |
|----------------------|----------------------------------|----------------|
| 100 | 10 10 10 10 10 10 10 10 | 1 |
| 1 | 8 | 2 |

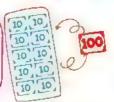
| Hundreds L.E. 100 | Tens L.E. 10 | Ones L.E. 1 |
|----------------------|-----------------|----------------|
| 100 | 10 10 10 | 1 |
| 1 | 4 | 3 |

| Hundreds | Tens | Ones |
|----------|---|--------|
| L.E. 100 | L.E. 10 | L.E. 1 |
| 100 | 10 10 10 10 10 10 10 10 10 10 | |



L.E. 300 🐈 L.E. 20 🐈 L.E. 5 🚍 L.E. 325

We regroup ten L.E. 10 as one L.E. 100



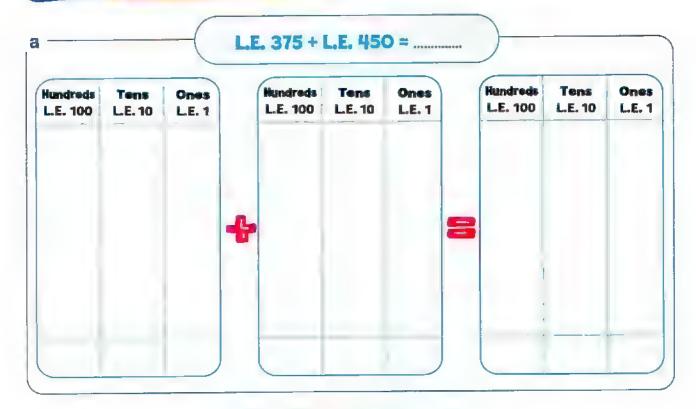
When the sum of banknotes in the tens place is bigger than nine L.E.10, we regroup ten L.E. 10 as one L.E. 100

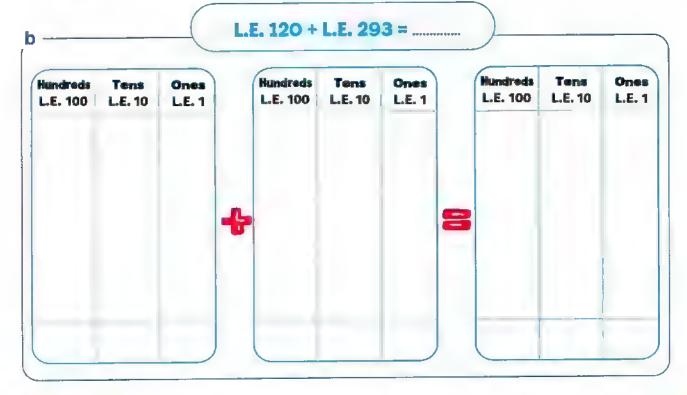
Daily Practice:

- Invite your child to count the number of days he/she spent in school and ask him/her to draw
 a circle around the total number in the 120 chart.
- Ask your child to tell you the name of today and the name of day before and the day after.
 Key words: Regrouping tens



Activity Solve the following problems using the place value/money mat:







Parents' Tips:

Encourage your child to solve some money problems about addition.





Activity 4 Add and match:





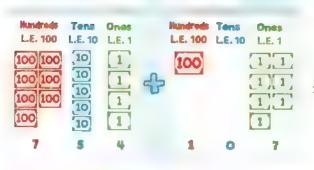








C LE. 754 🐈 L.E. 107



L.E. 227

I learned

 How to solve money addition problems with and without regrouping using the place value/money mat.







(A) Subtracting amounts of money without regrouping

How can we subtract L.E. 345 – L.E. 224 using place value/money mat?



| Hundreds L.E. 100 | Tens L.E. 10 | Ones L.E. 1 | | Hundreds L.E. 100 | Tens L.E. 10 | Ones L.E. 1 |
|----------------------|-----------------|----------------|---|----------------------|-----------------|----------------|
| 100 | [10][10] | | 8 | 100 | 10 | 1 |
| | | | | | L.E. 121 | |

First

Represent the minuend 345 on the place value money mat.

Second

In the ones place cross out L.E. 4 from L.E. 5

Third

In the tens place, cross out L.E. 20 from L.E. 40

So,
$$4[1]-2[1]=2[1]$$

Fourth

In the hundreds place, cross out L.E. 200 from L.E. 300

So,
$$3 \times - 2 \times = 1 \times = 1$$

HTO

The result will be L.E. 121



Encourage your child to look at the calendar, then ask him/her to draw a circle around today's date.

Help your child to tell you the name of the current day and the current month.

Key words: Subtracting - Without regrouping - Place value - Money mat - Minuend

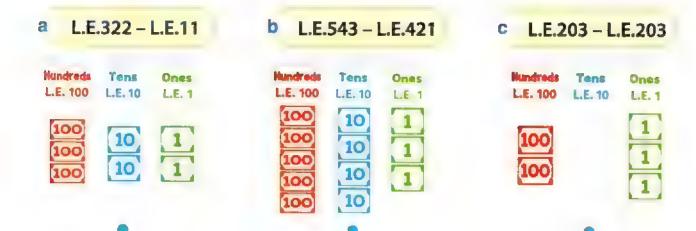




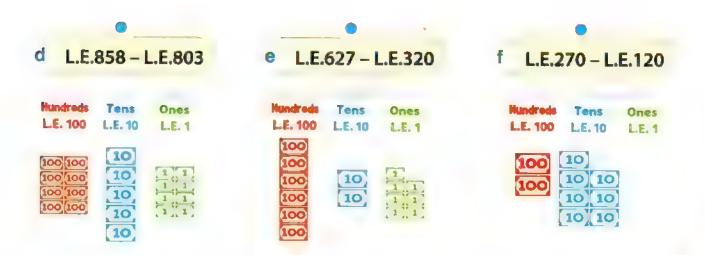




Cross out to solve each subtraction problem, then match to its suitable answer:











Help your child solve subtraction problem without regrouping using the place value/money mat.



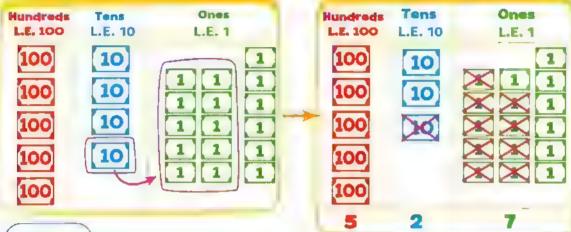
(B) Subtracting amounts of money with regrouping tens

How can we subtract L.E. 546 – L.E. 19 using place value/money mat?



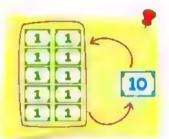
The minuend L.E. 546 after regrouping

L.E. 546 - L.E. 19



First

When we subtract the banknote in the ones place, we found that there isn't enough ones to take away L.E. 9 from L.E. 6. So we will regroup one L.E. 10 into ten L.E. 1. Then we get L.E. 16 in the ones place.



We regroup ten L.E. 1

Third

In the tens place there are 3 of L.E.10 now so subtract, 10 - 1 10 = 2 10

Fourth

In the hundreds place subtract $5 \ 100 - 0 \ 100 = 5 \ 100$

The result will be L.E. 527

Daily Practice:

- Encourage your child to look at the calendar. Ask him/her to draw a circle around today's date.
- Help your child to tell you the name of the day and the name of the month.

Key words: Subtract - Regrouping ones





2

Solve the following subtraction problems using the place value/money mat:



Parents' Tips:

L.E. 100

· Help your child solve subtraction problems with regrouping.

Tens

L.E. 10

L.E. 1





Tens

L.E. 10

L.E. 1

L.E. 100



C Subtracting amounts of money with regrouping hundreds

How can we subtract L.E. 928 – L.E. 185 by using the place value/money mat?



10 10



L.E. 928 - L.E. 185

| Hundreds | Tens | Ones |
|--|--|--------|
| L.E. 100 | L.E. 10 | L.E. 1 |
| 100 100 100 100 100 100 100 100 | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | |

First

Start subtracting from the ones place

Second

In the tens place we cannot find enough tens to

take away 8 10 from 2 10

So, we regroup 1 100 into 10 10

Then, we get:

2 + 10 = 12 in the tens place

Third

In the tens place subtract

Fourth

In the hundreds place there are 8 of 100 now, subtract

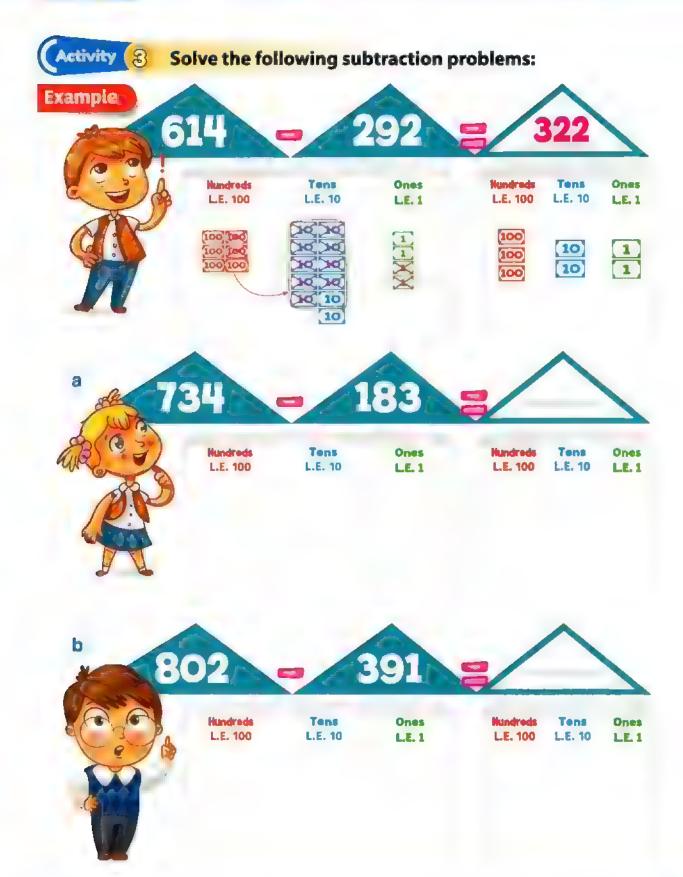
L.E. 928 - L.E. 185 = L.E. 743

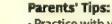
Daily Practice:

Encourage your child to look at the calendar, ask him/her to draw a circle around today's date.
 Key words: Regrouping hundreds









 Practice with your child to solve many subtraction problems with regrouping using the place value money mat.







Solve the following subtraction problems, then match:

a L.E. 472 - L.E. 191

Hundreds Tens Ones L.E. 100 L.E. 10 L.E. 1 b L.E. 527 - L.E. 409

Hundreds Tens Ones L.E. 100 L.E. 10 L.E. 1

L.E. 118

L.E. 302

L.E. 281

L.E. 415

C L.E. 843 - L.E. 428

Hundreds Tens Ones L.E. 100 L.E. 10 L.E. 1 d L.E. 321 - L.E. 19

Hundreds Tens Ones L.E. 100 L.E. 10 L.E. 1



 How to solve subtraction money problems with and without regrouping using the place value/money mat.





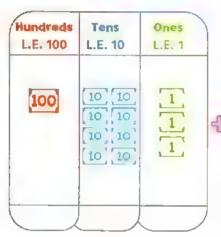


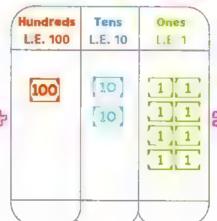
Addition and subtraction money story problems with regrouping

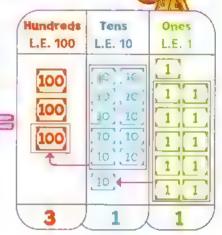
Addition story problems

Yassin bought a T-shirt for L.E. 183 and a pair of shoes for L.E. 128, how much money did he pay?

L.E. 103 & L.E. 128 = L.E. 311





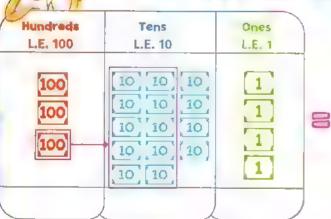


Subtraction story problems



Zina saved L.E. 344. She wants to buy a pair of shoes for L.E. 181. How much money will be left with her?

L.E. 344 - L.E. 101 - L.E. 163







Encourage your child to look at the calendar, ask him/her to draw a circle around today's date.
 Key words: Left



Activity

Read and think, then solve:

a Jasmine bought some milk for L.E. 24 and some meat for L.E. 57.

How much money did she pay in all?

Hundreds L.E. 100 Tens

Ones



On Sally's birthday, her grandmother gave her L.E. 382 and her grandfather gave her L.E. 143. How much money did Sally have now?

Nundreds L.E. 100 Tens L.E. 10

Ones L.E. 1



Perry went to a pet shop, she bought a gold fish for L.E. 29 and a black fish for L.E. 35.

How much money did she pay?

Hundreds L.E. 100 Tens L.E. 10 Ones





Parents' Tips:

Encourage your child to solve some story problems and figure out the sign.
 Key words: In all - Pay





Activity

Read, think, then solve:

a Khaled had L.E. 718. He bought a scooter for L.E. 291. How much money was left with him?

Hundreds Tens Ones L.E. 100 L.E. 10 L.E. 1



b Marwa has L.E. 962. She bought a dress for L.E. 358. How much money left with her?

> Hundreds Tens Ones L.E. 100 L.E. 10 L.E. 1



Amira had L.E. 120. She wants to buy a cake for L.E. 68. How much money will be left with her?

Hundreds Tens Ones L.E. 100 L.E. 10 L.E. 1







• Encourage your child to solve some story problems by finding the suitable operation. **Key words:** Left



Activity & Match:



Ihave

L.E. 321 + L.E. 192.
 Who has L.E. 725?



Who has

1 L.E. 256 + L.E. 181? I have L.E. 363.



l have

b L.E. 853 – L.E. 238. Who has L.E. 352?



Who has

L.E. 582 + L.E. 143? I have L.E. 513.



Ihave

c L.E. 129 + L.E. 234. Who has L.E. 437?



3 L.E. 536 - L.E. 184? I have L.E. 615,



 How to solve money addition and subtraction story problems using the place value money mat.





Estimate the value of different items.

Solve some addition and subtraction money story problems using money mat.



Combine banknotes and decompose a banknote using different ways.

Add and subtract amounts of money without regrouping and with regrouping (ones, tens).

Spend money without exceeding my budget.

Use the place value money mat to add and subtract money.



General Activities on Chapter





Match:

a



L.E.



b



L.E.

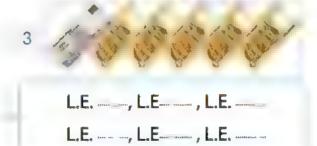


L.E. --, L.E

C



L.E.



d



L.E.



Put (🗸) if the money they have is enough to buy the item, and (X) if the money they have isn't enough to buy the item:



8 Complete to form an equal amount of money:





SANE OF THE STATE OF THE STATE



C







Color the object you can buy according to the money you have in each purse:



Read, think, then solve:

Mai went to the market. She bought some juice for L.E. 25 and some milk for L.E. 38, how much money did she spend in all?

What she spent =

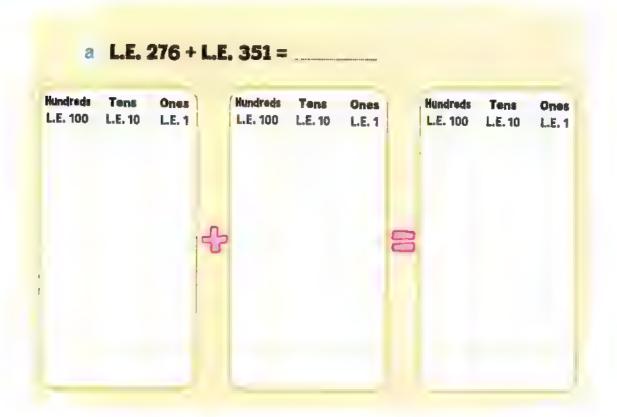


b Sally saved L.E. 720, she bought a dress for L.E. 180, how much money was left with her?

The left money =



Solve the following problems using the place value/money mat:





In the large place value money mat color the banknotes to form a number according to the given key:









Hundreds

L.E. 100



Tens

L.E. 10





Ones

L.E. 1









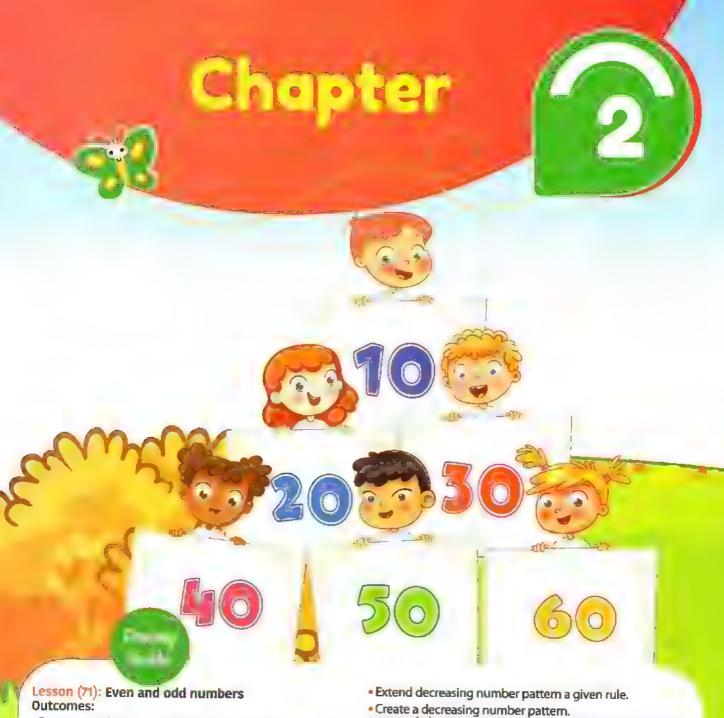












Determine whether a number is even or odd.

The doubles of even or odd numbers

Outcomes:

- Determine whether doubling a number results in even or odd.
 Lesson (73): Adding even and odd numbers
- Outcomes:
- Determine whether adding an even and an odd number gives a result of an even or odd sum.

The shape pattern

Outcomes:

- Identify the rule of the shape pattern.
- Lesson (75): The number pattern using addition operation Outcomes:
- Add to extend a pattern.
- Extend increasing number patterns using a given rule.
- Create an increasing number pattern.

The number pattern using subtraction operation

Outcomes:

Subtract to extend a pattern.

Lesson (77): Number pattern with more than one rule Outcomes:

- Identify the number pattern that has more than one rule.
- Extend number patterns up to five places using more than one rule.
- Create addition and subtraction pattern rules.
 Arrays

Outcomes:

- Define an array.
- Identify arrays and non-arrays.
- · Create an array.

Lessons (79 & 80): Forming equations for arrays Outcomes:

- Use repeated addition to find the total number of objects in an array.
- Write addition equations to express the total number of objects in an array.
- Design an array using repeated addition.



Ali jumps on the even numbers to make a pattern.





Even and odd numbers

Odd number





It is the number that can't be split into equal groups, because there is always one left over such as (1,3,5,7,9).

Even number



To find the even or the odd numbers that has more than 1-digit, just look at the ones place if it is:

(1, 3, 5, 7, 9)

The number is odd 81, 263, 405 (0, 2, 4, 6, 8)

The number is even

32,74,106



- Invite your child to look at the calendar and ask him/her to draw a circle around today's date.
- Ask your child to write the name of the day and the name of the day before and the day after.
 Key words: Even Odd Left over Partners

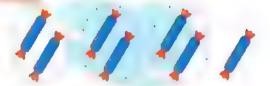






Make groups of 2, write even or odd, then tick (✓) if there is one left over:

Example



How many / are there? 7
Is it even or odd? Odd



How many are there?



How many are there?



How many are there?



How many Sare there?

2 Tick (/) to choose the correct answers:

a Which numbers are even?

















Which numbers are odd?



















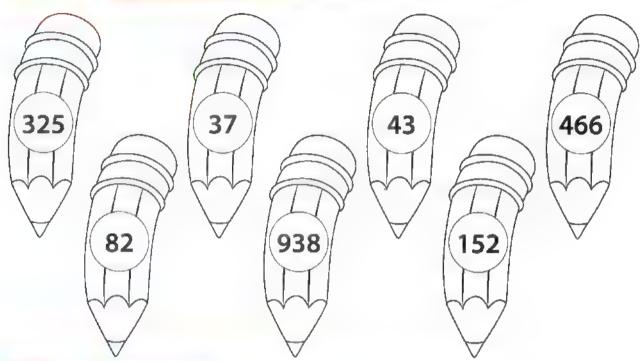
• Encourage your child to determine the difference between the odd number and the even number.





(Admity 3

Color the even number in blue and the odd number in pink according to the ones place of each number:



(Marity 4

Think, then solve using the given digits:

Example

Form numbers consist of 2 digits using digits 8, 3 to get

Even number: 38

Odd number: 83

Form numbers consist of 3 digits using digits 5, 0, 6 to get

Even numbers:

Odd numbers:

Form numbers consist of 3 digits using digits 6, 1, 1 to get

Even number:

Odd numbers:

Form numbers consist of 2 digits using digits 4, 9 to get

Even number:

Odd number:

Parents' Tips:

· Ensure that your child can find the even or odd numbers that consist of 2 digits.







Use the given number chart up to 120 to answer the given questions:

a Color even numbers starting from 21 to 30 in red?

The numbers are:

b Color odd numbers starting from 31 to 43 in blue?

The numbers are:

Color even numbers starting from 40 to 80 in red?

The numbers are:

- d Color odd numbers starting from 79 to 100 in blue?
- The numbers are:

e Color even numbers starting from 90 to 120 in red?

The numbers are:

| | | | | | | H_{2} | | and the second of | | | |
|---|-----|-----|-----|-----|-----|---------|-----|-------------------|-----|-----|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | |
| | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | |
| ì | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | |
| 4 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | |
| | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | |
| ĺ | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | |
| | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | |
| | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | |
| | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | |
| | | | | 6 | | | | | | | |



Now look at the chart, what do you notice?



- Even number can be split into equal parts such as (2, 4, 6, 8, 10).
- Odd number cannot be split into equal parts because there is always one left over such as (1, 3, 5, 7, 9).
- If the ones digit of the 2 or 3-digit number is:
 - (0, 2, 4, 6, 8), then the number is even.
 - (1, 3, 5, 7, 9), then the number is odd.







The doubles of even or odd numbers



If we double an odd number, we get an even sum.

| Even | Odd |
|------|-----|
| 0 | 1 |
| 2 | 3 |
| 4 | 5 |
| 6 | 7 |
| 8 | 9 |

Even Even — Seven — Se

If we double an even number, we get an even sum.



That means the double of any number must be an Even number.



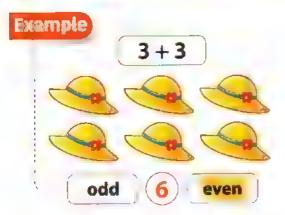
- Invite your child to look at the calendar and ask him/her to draw a circle around today's date.
- Ask your child to write the name of the current day and the name of the current month.

Key words: Doubles - Sum - Even - Odd





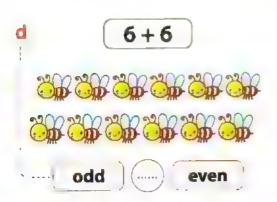
Add, then color odd or even according to the result:

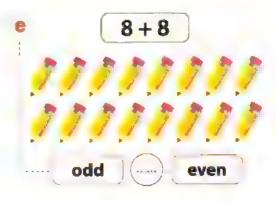














• If we double an odd number or an even number, we get an even sum.







Adding even and odd numbers

Let's add even and odd numbers.



If we add two odd numbers together we get an even sum.

Odd













| Even | Odd |
|------|-----|
| 0 | 1 |
| 2 | 3 |
| 4 | 5 |

If we add two even numbers together we get an even sum.

Fven







Even



Even



If we add an even number to an odd number we get an odd sum.

Even









Odd













Odd





 Encourage your child to count the numbers of days he/she spent in school and color the total number in 120 chart with yellow.

Key words: Even - Odd - Sum





Activity: 1 Add, then circle whether the sum is even or odd:

4 + 4

even or odd

4 + 5 even or odd

C

3 + 4

even or odd

1 + 7

e



even or odd

8 + 2

even or odd

g



even or odd



Ī



even or odd

10 + 0

even or odd



Parents' Tips:

• Ensure that your child can find the sum of adding and can determine if it is even or odd.

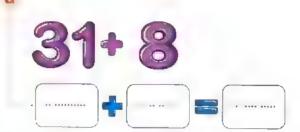






Determine whether the answer is even or odd without adding:

Enample

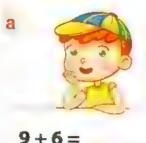


23+17



Add, then color whether the answer is odd or even:





| , | | , | |
|------|---|----|-----|
| even | • | (| odd |
| | | ٠. | |







| | | | | | , | , | |
|---|----|-----|---|--|---|---|-----|
| | | | | | | 1 | |
| e | ve | er: | 1 | | ł | + | odd |
| | | | | | | | |



even odd



Parents' Tips:

- Encourage your child to determine whether the sum is even or odd without adding.
- Practice with your child on adding, then figure out whether the result is even or odd.



Add the dots on the dice, color, then determine whether the answer is even or odd:

Example



a even odd

b even odd

c even odd

d even odd

e even odd



If I add:

- even + even = even
- -odd + odd = even

- odd + even = odd
- even + odd = odd





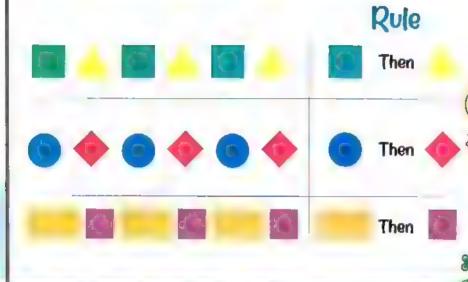


The shape pattern



We can see shape patterns in our life like my dress.

Let's learn how to form a shape pattern





We must find the rule to complete the shape pattern.



- Encourage your child to count the numbers of days he/she spent in school and draw a circle around the total number in the 120 chart.
- Help your child tell you the name of the day and the name of the month.
 Key words: Shape pattern





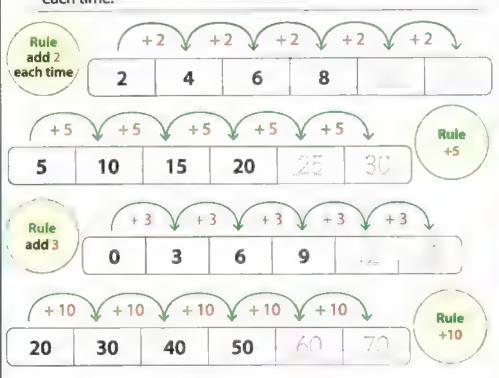
| Complete the shape pattern by finding the rule for each one: |
|--|
| Rule: |
| a Rule: |
| b |
| |
| |
| How to form a shape pattern and how to find its rule. |





The number pattern using addition operation

When we find that the number is getting bigger in the pattern (increasing pattern). This means that the rule is adding a number each time.



Start at the given number, then use the pattern rule to find the next number.



- Pattern of even numbers
- 2, 4, 6, 8, 10
- **10, 12, 14, 16, 18**
- 20, 22, 24, 26, 28
- In the 2-digit number just notice ones place to figure out even or odd.

78,32,90



- Pattern of odd numbers
- -1,3,5,7,9
- 11, 13, 15, 17, 19
- 21, 23, 25, 27, 29
- In the 2-digit number just notice ones place to figure out even or odd.

51, 79, 63



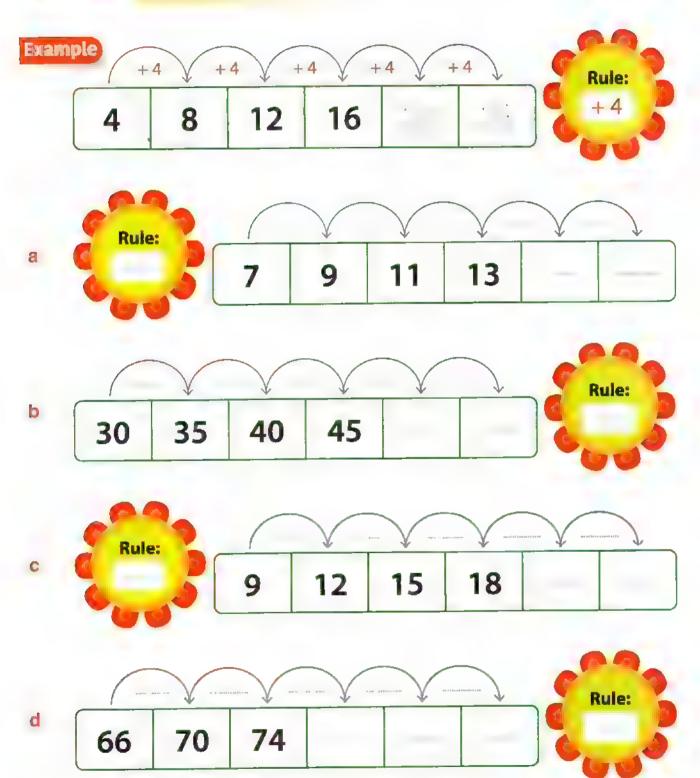
• Invite your child to look at the calendar and ask him/her to color today's date in blue.

Key words: Increasing number pattern - Rule





Complete the following patterns by identifying the rule of each one:





Encourage your child to find the rule of each pattern.





Match each pattern to its suitable rule:

- 30,40,50,60
- 7,14,21,28 c 31,42,53,64 d 20,24,28,32

- **Rule: +4**
- Rule: + 10
- **Rule: +7**
- Rule: + 11

Complete the pattern by identifying the rule:

10, 15, 20, 25, ... ,

Rule:

20, 26, 32, 38,

Rule: ...

53, 62, 71, 80,

Rule:

- 49, 59, 69, 79,

Rule: ..

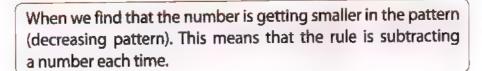


How to form an increasing number pattern using its rule.

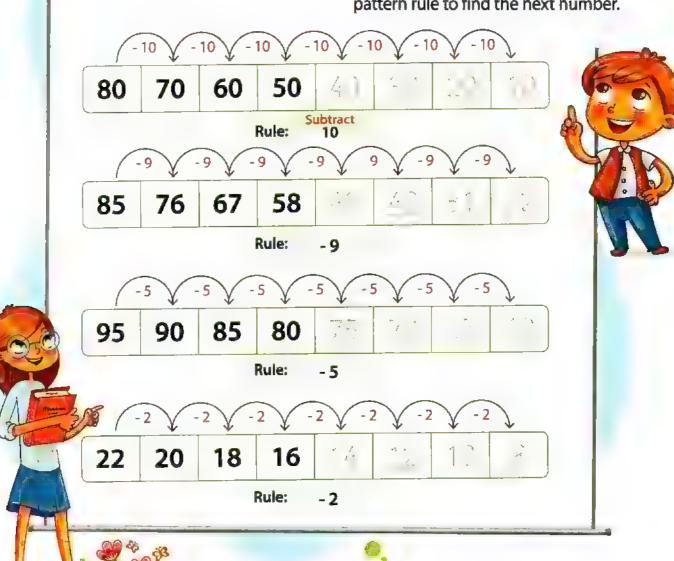




The number pattern using subtraction operation



Start at the given number, then use the pattern rule to find the next number.



Dally Practice:

Invite your child to look at the calendar and ask him/her to color today's date in yellow.
 Key words: Decreasing number pattern







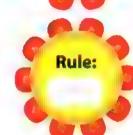
Complete the pattern by identifying the rule:

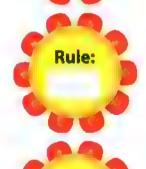
Example

66, 63, 60, 57, 54, 51, 48, 45

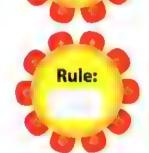
- 90, 80, 70, 60,,
- 80, 71, 62, 53,,
- d 28, 24, 20, 16,,
- 8 32, 30, 28, 26,,







Rule:







• Encourage your child to find out the rule of decreasing pattern.



Match each pattern to its suitable rule:

32,24,16,8 b 40,30,20,10 c 15,12,9,6 d 35,30,25,20

0

Rule: - 5

Rule: - 10

Rule: - 8

Rule: - 3

Activity (S) Complete the pattern by identifying the rule:

90, 81, 72, 63, _____,

Rule: ...

100, 90, 80, 70,

Rule:

27, 24, 21, 18,

Rule:



How to form a decreasing number pattern using its rule.







Number pattern with more than one rule

Look at the following number pattern

24 28 26 30 28 32 30

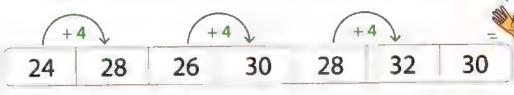


The pattern increases, then decreases, then increases and so on:

- When it increases we are adding.
- When it decreases we are subtracting.

Let's find the rule

First: We will find the numbers that are getting bigger.



Second: We will find the numbers that are getting smaller.



The rule is + 4, then - 2



The pattern has more than one rule.

Rule is (+4) and (-2)



- Invite your child to look at the calendar and ask him/her to draw a circle around today's date.
- Help your child count the number of days he/she has spent in school and draw a circle around the total number in the 120 chart,

Key words: Increase - Decrease - Small - Big - Rule

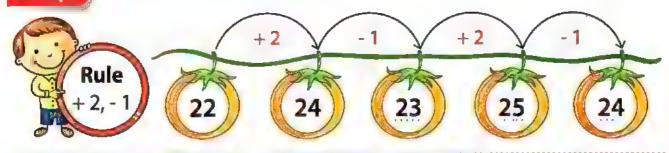


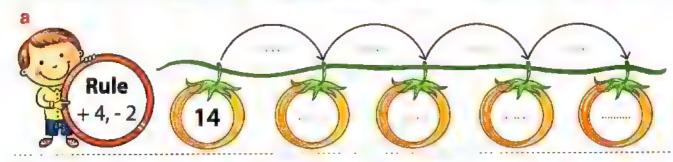


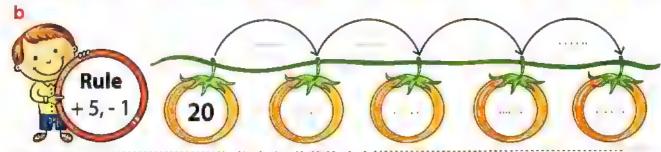


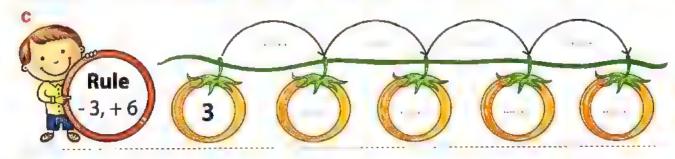
Create your own pattern using the given rules starting by the first number:

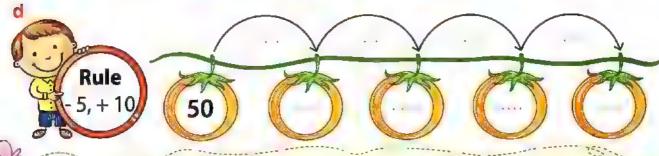
Example











Parents' Tips:

• Help your child to form a pattern that has more than one rule (+, -).





Color the suitable rule:

 How to form a pattern with a rule that requires adding and subtracting in the same pattern.



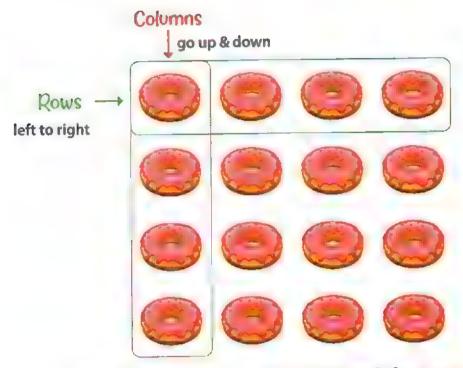




Arrays

- An array is a kind of pattern.
- It has objects that are arranged in rows and columns with no gaps.
- It can be formed vertically or horizontally.

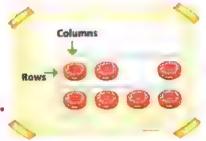




This is called an array because it has no gap.

Be careful:

This isn't an array, it is just a picture because it has a gap.



All rows have the same number of items.

All columns have the same number of items.





Daily Practice:

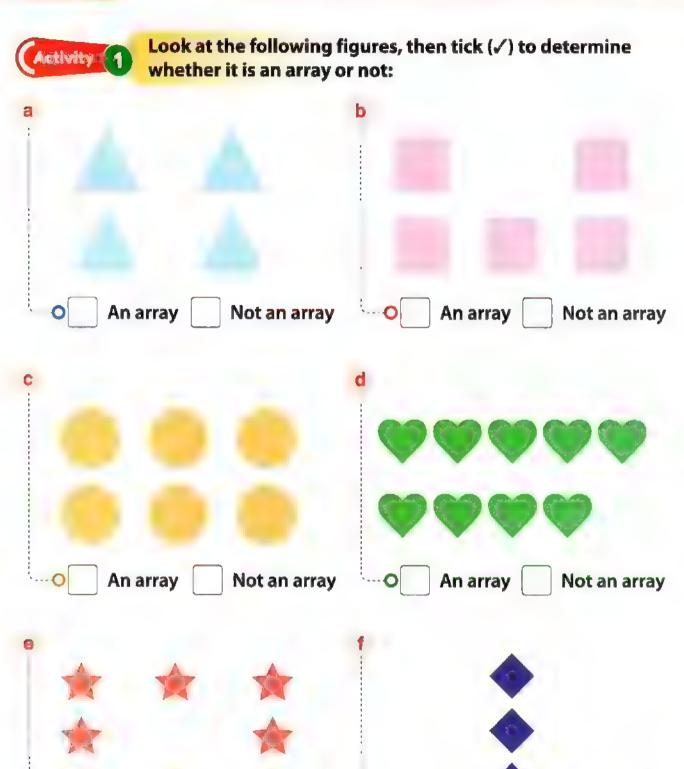
Invite your child to look at the calendar and ask him/her to draw a circle around today's date.

Ask your child to write the name of the day and the name of the month.

Key words: Array - Row - Column Vertically - Horizontally - Gap







Parents' Tips:

An array

• Encourage your child to learn the difference between an array and a picture.

Not an array

An array

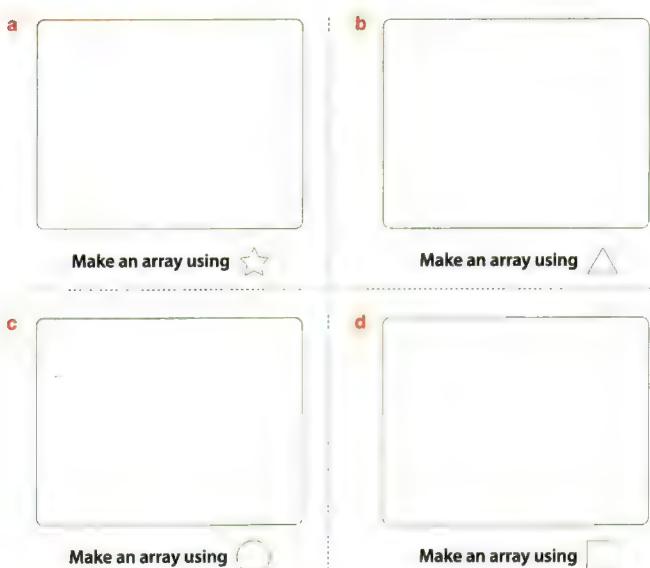




Not an array



Build your own array using the given keys:





- The array consists of objects arranged in rows and columns with no gaps.
- The column is going up and down (vertical).
- The row is going from left to right (horizontal).







Forming equations for arrays

How can we find the total number of windows?

I can use counting. I have 8 windows.



This array is called

4 by 2.

rows

columns

I can also use

I have 2 columns.

Columns are vertical or going up and down.

I have 4 rows.

Rows are horizontal or going from left to right.

Repeated addition means we add the same number more than once.





Invite your child to look at the calendar and ask him/her to draw a circle around today's date.

• Ask your child to write the name of the day and the name of the day before and the day after. **Key words:** Equation - Repeated addition





Example



Rows: 3 with equation 4+4+4=12



Columns: 4 with equation 3+3+3+3=12

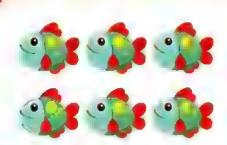




Rows : with equation .

Columns: with equation

This array is called by



: with equation

Columns: with equation

This array is called by



Rows : with equation

Columns: with equation

This array is called ____ by



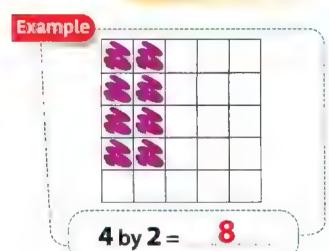
Help your child write an equation for arrays using repeated addition.

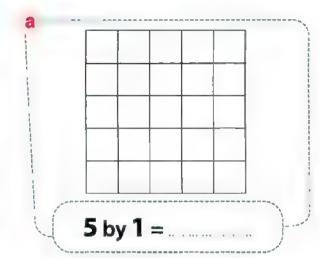


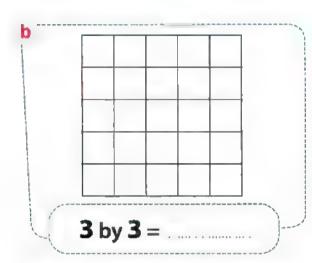


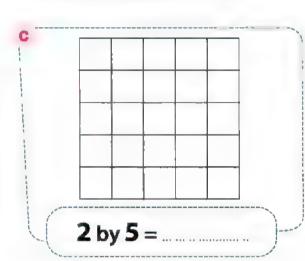


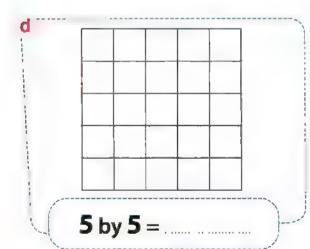
Color the given squares to form an array according to its name using one color:

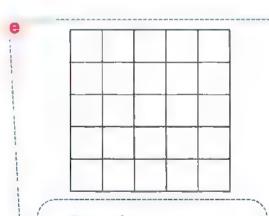












3 by 2 =

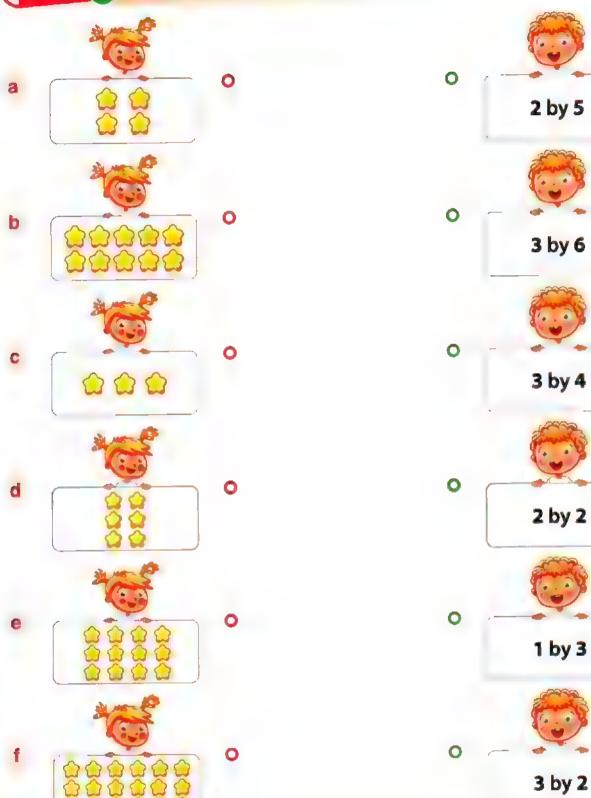
Parents'Tips:

• Ensure that your child can color to form different arrays.





Activity 3 Match each array with its name:





Encourage your child to match each array with its name.



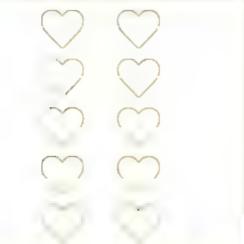


Draw an array for each equation using \(\infty \) or \(\frac{1}{12} \):

Example

5 rows =
$$2 + 2 + 2 + 2 + 2$$

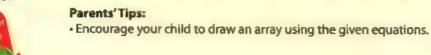
$$2 \text{ columns} = 5 + 5$$



5 rows =
$$3+3+3+3+3$$

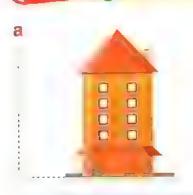
3 columns = $5+5+5$











Array:

by



Array:

by



Array:

by



Array:

by



Array:

by



Array:

by



Name of the array is.



- 2 by 3
- How to represent repeated addition sentences:
 - Equation of rows is



- Equation of columns is







Summary



Determine if a number is even or odd number.

Create an array and write its repeated addition equation.

Find if the sum of two numbers is even or odd:

even + even= even

odd + odd = even

even + odd = odd

Create a numerical pattern with more than one rule.

Form a shape pattern using a rule.

O and subtraction (decreasing)

pattern using different rules.



General Activities on Chapter 📳





Write the name of each array:











..... by

6666



























.....by













.....by













----- by -----



..... by

0000000

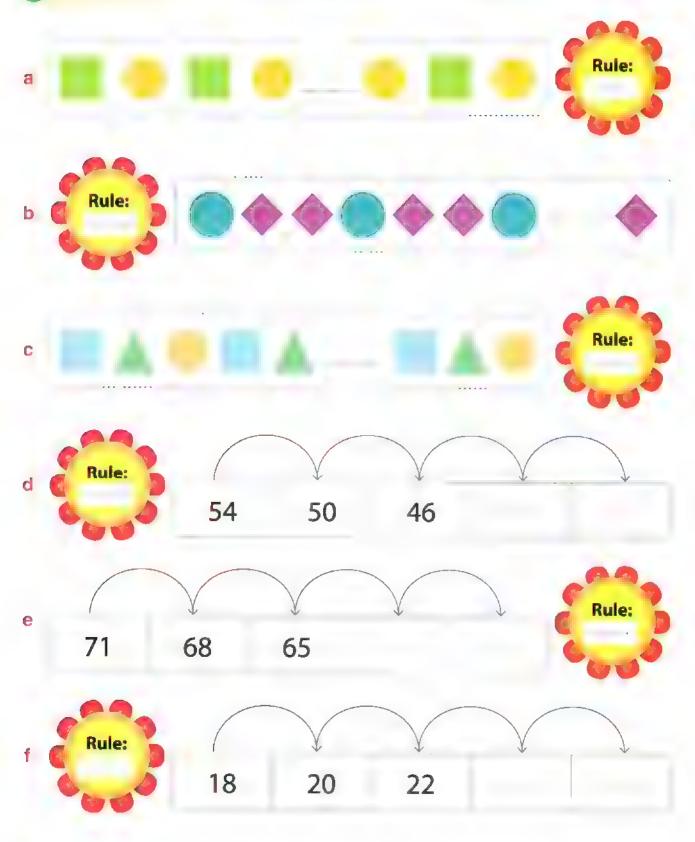




.....by

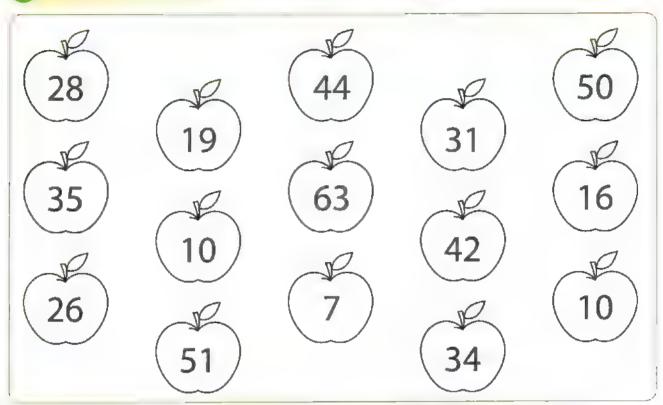


Complete the following patterns and write their rules:

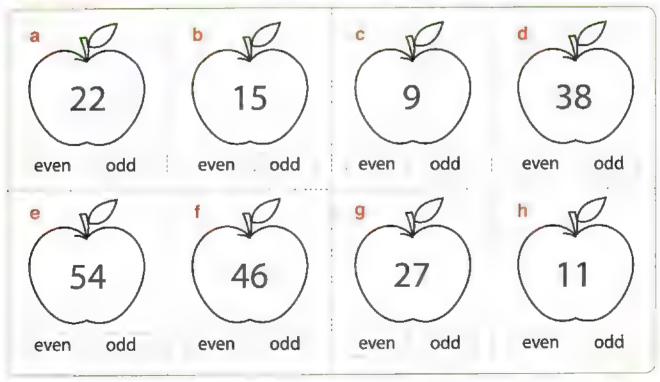




Color the even number in blue and the odd number in red :



Color the correct word "even or odd" for each apple:



Complete:

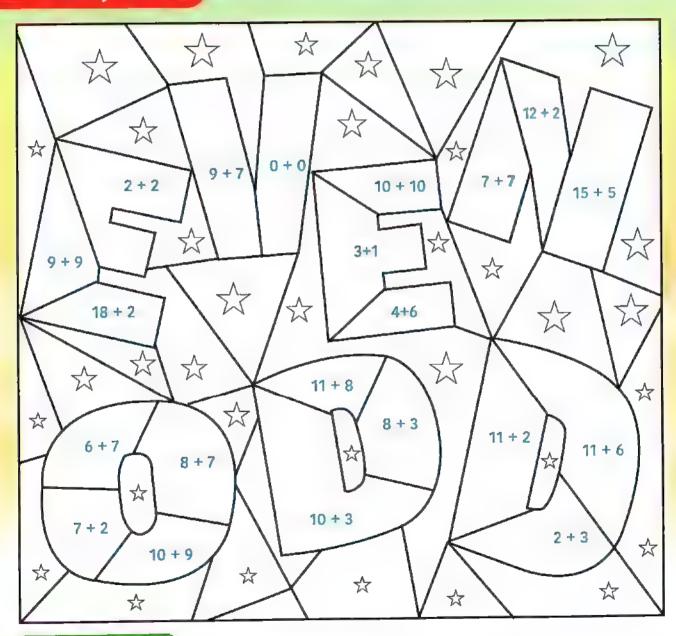
| Repeated addition: Columns: Repeated addition: Name: Name: |
|--|
| Repeated addition: Columns: Repeated addition: Name: |
| Repeated addition: Columns: Repeated addition: Name: |
| Repeated addition: Columns: Repeated addition: |

Name: by





Color by code



Even and odd

Sum is even (red).

Sum is odd (blue).







Pacing Guide

Lesson (81): Using front-end estimation strategy to add or subtract 2-digit numbers

Outcomes:

- Apply strategies to estimate sums and differences.
- Apply front-end estimation strategy.

Using rounding strategy to the nearest ten to add or subtract 2-digit numbers

Outcomes:

- Round 2-digit numbers to the nearest ten.
- Round two 2-digit numbers to estimate their sum.

 Lesson (83) Using estimation strategies to add or subtract 3-digit numbers

Outcomes:

- Estimate sums and differences using front-end strategy.
- Round 3-digit numbers to the nearest hundred using rounding strategy.

Using place value mat to add 2-digit numbers with regrouping ones

Outcomes:

- Add 2 digit numbers with regrouping.
- Learn why it is sometimes necessary to regroup to solve problems.
- Use place value mat to regroup and add.

Lessons (86 & 87): Using place value mat to add 2-digit numbers with regrouping tens

Outcomes:

- Add two 2-digit numbers with regrouping.
- Use place value mat to regroup and add.

Using place value mat to add 3-digit numbers with regrouping

Outcomes:

- Add two 3-digit numbers with regrouping.
- Use place value mat to regroup and add.

Lesson (89): (A) Adding 2-digit numbers with regrouping

- **Outcomes:** Add 2 digit numbers with regrouping.
 - (B) Adding 3-digit numbers with regrouping

Outcomes:

- Make connections between concrete and abstract models of regrouping.
- Add 3-digit numbers with regrouping.

Detecting errors (identify and fix errors)

Outcomes:

 Identify and correct errors in estimation and regrouping problems.





Using Front-end estimation strategy to add or subtract 2-digit numbers

How to estimate the addition of

Tens Ones

Ones









To estimate the addition of 32 + 56, we can use the front-end estimation:

First

Look at the front place of the number which is tens.

Second

We are going to think of 32 as 30 and 56 as 50.





30 + 50

My estimation sum is 80.

- 80 is not the actual answer, it's my estimation.
- The actual answer of 32 + 56 is 88.
- So, my estimation is less than the actual answer.





Invite your child to look at the calendar and ask him/her to draw a circle around today's date.

Ask your child to write the name of the day and the name of the day before and the day after.

Key words: Front-end strategy - Estimation - Actual answer - Sum - Mentally - Less than



How to estimate the subtraction of:

Tens Ones Ones Tens

First

Look at the front place of the number which is tens.

Second

We are going to think of 84 as 80 and 37 as 30.

Mentally, subtracting 80 - 30 is 50

80 - 30

My estimation difference is 50.



- 50 is not the actual answer, it's my estimation.
- The actual answer of 84 37 is 47.
- So, my estimation is more than the actual answer.



 Help your child learn how to estimate addition and subtraction of two-digit numbers. Key words: More than - Difference





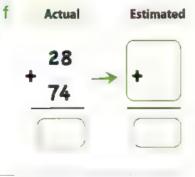


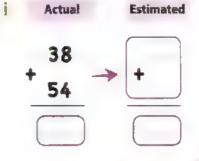
Use the front-end estimation to add or subtract:

Example

Estimated

Actual







Encourage your child to solve some problems about sums and differences of 2-digit numbers.



Complete, then match each problem with its suitable estimation:

If your estimation is more than the actual sum color the bone with red if it is less than color it with blue.

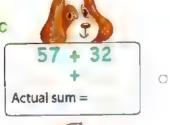
78 + 32 + Actual sum =

0

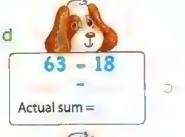
· 40

49 - 38 - Actual sum =

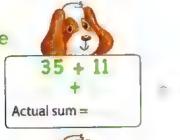
o **80** €



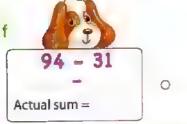
60



· 50



· 10/3



· 100

Parents' Tips:

[•] Ensure that your child can use front-end estimation strategy to add and subtract 2-digit numbers.





Use the front-end strategy to estimate each of the following:



 How to estimate the addition and subtraction problems using the front-end strategy.





Using rounding strategy to the nearest ten to add or subtract 2-digit numbers

How care we maint a warniser to the namest ten?

Round down Round up

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----|--|--|---|---|---|---|---|---|---|
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 24 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 36 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | -30 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 51- |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 5 5 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 7/2 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 30 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 00 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| | 21 31 41 51 61 71 81 | 11 12 21 22 31 32 41 42 51 52 61 62 71 72 81 82 | 11 12 13 21 22 23 31 32 33 41 42 43 51 52 53 61 62 63 71 72 73 81 82 83 | 11 12 13 14 21 22 23 24 31 32 33 34 41 42 43 44 51 52 53 54 61 62 63 64 71 72 73 74 81 82 83 84 | 11 12 13 14 15 21 22 23 24 25 31 32 33 34 35 41 42 43 44 45 51 52 53 54 55 61 62 63 64 65 71 72 73 74 75 81 82 83 84 85 | 11 12 13 14 15 16 21 22 23 24 25 26 31 32 33 34 35 36 41 42 43 44 45 46 51 52 53 54 55 56 61 62 63 64 65 66 71 72 73 74 75 76 81 82 83 84 85 86 | 11 12 13 14 15 16 17 21 22 23 24 25 26 27 31 32 33 34 35 36 37 41 42 43 44 45 46 47 51 52 53 54 55 56 57 61 62 63 64 65 66 67 71 72 73 74 75 76 77 81 82 83 84 85 86 87 | 11 12 13 14 15 16 17 18 21 22 23 24 25 26 27 28 31 32 33 34 35 36 37 38 41 42 43 44 45 46 47 48 51 52 53 54 55 56 57 58 61 62 63 64 65 66 67 68 71 72 73 74 75 76 77 78 81 82 83 84 85 86 87 88 | 11 12 13 14 15 16 17 18 19 21 22 23 24 25 26 27 28 29 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47 48 49 51 52 53 54 55 56 57 58 59 61 62 63 64 65 66 67 68 69 71 72 73 74 75 76 77 78 79 81 82 83 84 85 86 87 88 89 |

To round a 2-digit number to the nearest ten, we look at the ones place and think about which tens number we are closest to.

To round 42 and 48 to the nearest ten:

First

Put a circle around ones place.

48

42

Second

If the ones place is 5 or more than 5, it will be closest to 50 So, 48 is rounded up to 50

Third

If the ones place is 4 or less, it will be closest to 40 So, 42 is rounded down to 40



Daily Practice:

- Invite your child to look at the calendar and ask him/her to draw a circle around today's date.
- Encourage your child to count the number of days he/she spent in school and draw a circle around it on the 120 chart.

Key words: Rounding - Estimation - closest







Use the previous chart to round each number to the nearest ten:

Example

95 is close to 100

90 91 92 93 94 95 96 97 98 99 100

b 68 is close to

60 61 62 63 64 65 66 67 68 69 70

d 83 is close to

f 77 is close to

80 81 82 83 84 85 86 87 88 89 90

a 74 is close to

70 71 72 73 74 75 76 77 78 79 80

c 21 is close to

20 21 22 23 24 25 26 27 28 29 30

e 18 is close to

10 11 12 13 14 15 16 17 18 19 20

g 52 is close to

70 71 72 73 74 75 76 77 78 79 80 | 50 51 52 53 54 55 56 57 58 59 60

Color the correct estimation by using rounding strategy:

63 is close to

50 70 99 is close to

80 100

47 is close to

50

82 is close to

80 90 70



Help your child learn how to round numbers to the nearest ten.







Example

36 + 24

36 is rounded up to 40

24 is rounded down to 20 40 ÷ 20 = 60

The estimated sum is 60

67-19

67 is rounded up to 70

19 is rounded up to 20

70 - 20 = 50

The estimated difference is 50





28 is rounded to

13 is rounded to

The estimated sum is





81 is rounded to

59 is rounded to

The estimated difference is





76 is rounded to

34 is rounded to

The estimated difference is





44 is rounded to

35 is rounded to

The estimated sum is





65 is rounded to

19 is rounded to

The estimated sum is





92 is rounded

s rounded to

81 is rounded to

The estimated difference is



Parents' Tips:

Encourage your child to estimate some problems of addition and subtraction.







Estimate the sum and the difference using rounding strategy:

Example

$$58 + 24$$
 $60 + 20$ is 80

0

e

g

b

C

1

la



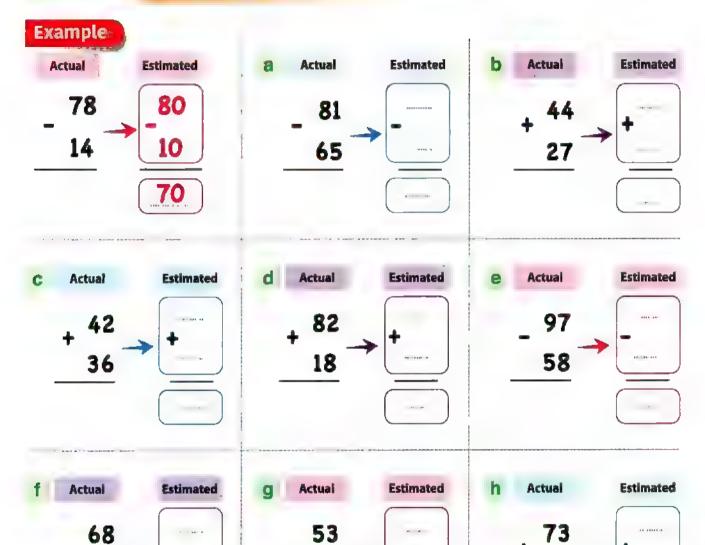


[•] Ensure that your child can use estimation to add and subtract 2-digit numbers.





Estimate the difference and the sum using rounding to the nearest ten:





31

 How to use the rounding strategy to estimate the sum & the difference by rounding each number to the nearest ten.

24



11







Using estimation strategies to add or subtract 3-digit numbers



Haw can we estimate the sum of 126 + 370 thing different strategyes?

First

Front-end strategy

 Look at the front place of the number which is the hundreds place.

$$120 + 370$$

- 120 we think about it as 100.
- 370 we think about it as 300.

So, the estimated sum is 100 + 300 = 400.

Second

Rounding strategy

$$120 + 370$$

- 120 is rounded down to 100. (to the nearest hundreds)
 Because the number in the tens place is less than 5.
- 370 is rounded up to 400. (to the nearest hundreds)
 Because the number in the tens place is more than 5.

So, the estimated sum is 100 + 400 = 500.

Actual sum is

120 + 370 = 490

So, rounding strategy gives us an estimation which is more close to the actual sum than the front-end strategy.





Invite your child to look at the calendar and ask him/her to draw a circle around today's date.

Ask your child to write the name of the day and the name of the month.

Key words: Estimation - Actual sum - Close to





Herr can be estimant the difference of 296 - 210 using different control of

First

Front-end strategy

Look at the front place of the number which is the hundreds place.

890 - 210

- 890 we think about it as 800.
- 210 we think about it as 200.

So, the estimated difference is 800 - 200 = 600

Second

Rounding strategy

890 - 210

- 890 is rounded up to 900 (to the nearest hundreds)
 Because the number in the tens place is more than 5.
- 210 is rounded down to 200 (to the nearest hundreds)
 Because the number in the tens place is less than 5.

So, the estimated difference is 900 - 200 = 700

Actual difference is 890 – 210 = 680

So, rounding strategy gives us an estimation which is closer to the actual difference than the front-end strategy.



Parents' Tips:

Help your child learn how to use rounding strategy for addition and subtraction.







Estimate to add or subtract using 2 different strategies:

Example

215 💠 582

Front-end estimation 200 + 500 is 700 Rounding estimation 200 + 600 is 800 652 - 345

Front-end estimation 600 – 300 is 300. Rounding estimation 700 – 300 is 400.

| а | 15 | 7 | 1 | 2 | _ |
|---|----|----|---|----|---|
| | 45 | .5 | | 71 | • |

Front-end estimation
........ is
Rounding estimation
........ is

672 💠 193

c 564 - 336

Front-end estimation
is ...
Rounding estimation
is ...

d 112 💠 565

e 815 - 434

Front-end estimation
- is
Rounding estimation
- is

768 💠 141

g 552 - 463

374 💠 185

Front-end estimation

+ is

Rounding estimation

+ is

829 - 230

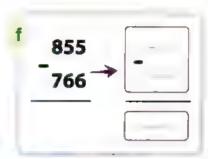
Front-end estimation
is
Rounding estimation
is

Parants' (ips

 Encourage your child to solve some problems about adding and subtracting 3-digit numbers using the front-end estimation and rounding.











Parents' Tips:

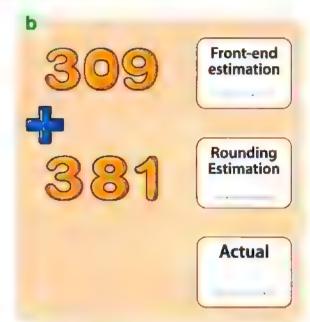
Ensure that your child can use rounding strategy to add and subtract 2 numbers.





Activity (3) Estimate, then write the actual sum or difference:









Rearned

 How to estimate addition and subtraction of 3-digit numbers using different strategies (front-end strategy and rounding strategy).



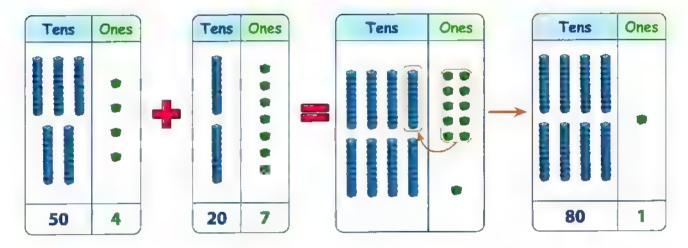




Using place value mat to add 2-digit numbers with regrouping ones

To find the sum of 54 – 27. We will use the place value mat-

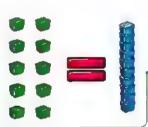
54 + 27 = 81







• We regroup 10 ones as 1 ten.

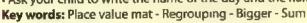


When the sum of the ones is bigger than 9, we regroup 10 ones as 1 ten and we move it to the tens place.



• Invite your child to look at the calendar and ask him/her to draw a circle around today's date.

Ask your child to write the name of the day and the name of the day before and the day after.





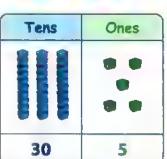


Activity 1

Add each of the following using the place value mat:

Example









| Tens | Ones |
|------|------|
| | • • |
| 20 | 6 |





| Tens | Ones |
|------|------|
| | • |
| 60 | 1 |

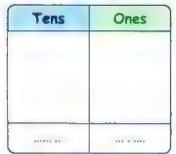
a



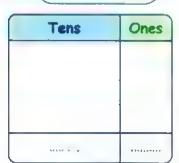












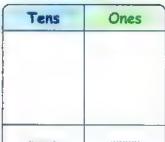
b













| Tens | Ones |
|------------|------|
| | |
| | |
| | |
| | |
| 414401 100 | |



Help your child learn how to use the place value to add 2-digit numbers.

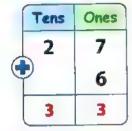


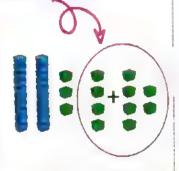


Add each of the following:

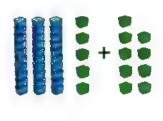
10 ones = 1 ten

Example

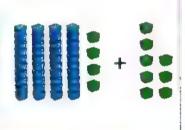


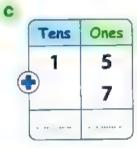


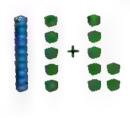
| Tens | Ones |
|------|------|
| 3 | 5 |
| • | 9 |
| - | |



b Tens Ones 8



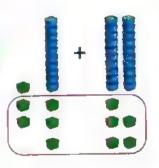




Add each of the following:

Example

| Tens | Ones |
|------------|------|
| 1 | 6 |
| e 2 | 5 |
| 4 | 1 |



| a | | | |
|------|------|-------|----|
| Tens | Ones | | + |
| 3 | 9 | | • |
| 1 | 6 | • • • | • |
| | | | •• |
| | | | |

| b | Tens | Ones | 22222 | 11 |
|----|------|------|-------|----|
| (| 5 | 8 | | |
| Q. | 2 | 4 | | •• |

| C | Ones | | | |
|----|------|-----|---|-------|
| 1 | 5 | | + | |
| 1_ | 9 | | | • • • |
| | | • • | | ••• |



Parents' Tips:

Encourage your child to solve some problems about adding 2-digit numbers with regrouping.

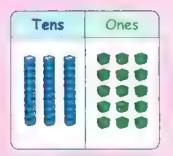


Add each of the following:

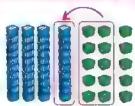


- How to add two numbers with regrouping ones.
- How to regroup 10 ones as 1 ten.

Regroup 10 ones as 1 ten.







| | 99 | • |
|-----|----|-----|
| | 00 | 0.0 |
| 868 | 99 | |

| Tens | Ones |
|------|------|
| | |
| 2500 | |

4 tens + 5 ones = 45





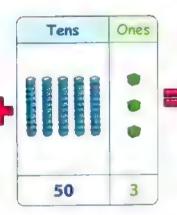


Using place value mat to add 2-digit numbers with regrouping tens

To add 64 = 53 using the place Value mate



| Tens | Ones | |
|------|------|---|
| (| | 4 |
| 60 | 4 | |



| Hundreds | Tens | Ones |
|----------|--|------|
| A | CALACTER CARRENAL CAR | |
| 100 | 10 | 7 |



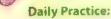
When the sum of the tens is bigger than 9, we regroup 10 tens as 1 hundred and we move this new group to the hundreds place.



- We regroup 10 tens as 1 hundred.
- We can draw a large square to represent one hundred.







Invite your child to look at the calendar and ask him/her to draw a circle around today's date.

Help your child count the number of days he/she spent in school and draw a circle around it on the 120 chart.
 Key words: Place value mat - Regrouping







Add each of the following:

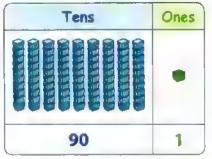
Example



| 9 | 1 |
|---|---|
| | |

| 1 | 23 |
|---|----|
| U | |

| Tens | Ones |
|------|------|
| | |
| 30 | 2 |



| Hundreds | Tens | Ones |
|----------|------|------|
| | | • |
| 100 | 20 | 3 |













| Hundreds | Tens | Ones |
|----------|------|------|
| | | |
| | | |
| | | |
| | | |
| | 4 | , |











| Tens | Ones |
|------|------|
| | |
| | |
| | |
| | |



| Tens | Ones |
|------|------|
| | |
| | |
| | |
| | |



| Hundreds | Tens | Ones |
|----------|------|------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |



- Help your child learn how to use the place value mat to add 2-digit numbers.







Activity 2 Add each of the following, then match:

Example

| Hundreds | Tens | Ones |
|----------|------|------|
| | 7 | 2 |
| + | 4 | 3 |
| 1 | 1 | 5 |

| | Hundreds | Tens | Ones |
|---|---|------|------|
|) | PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF | | • |
| | 100 + | 20 4 | 3 |

| Hur | dreds | Tens | Ones |
|-----|-------|------|------|
| | | 6 | 3 |
| (+) | | 7 | 4 |
| | | | |

0

| Hundreds | Tens | Ones |
|----------|------|------|
| 44000 | | ** |
| | | |
| | | •• |

| nes | Tens | Hundreds |
|-----|------|----------|
| 6 | 4 | |
| 2 | 6 | b |
| | 0 | |

| Hundreds | Tens | Ones |
|----------|------|------|
| | | |
| 100 + | 10 4 | 5 |

| Hundreds | Tens | Ones |
|-------------|------|------|
| | 8 | 1 |
| (+) | 4 | 2 |
| | | |

| | Hundreds | Tens | Ones |
|---|----------|------|------|
|) | | | •• |
| | 100 + | 30 4 | 7 |

Parents' Tips:

• Encourage your child to solve some problems about adding two numbers using the place value mat.





Add each of the following:

$$k 12 + 90 =$$

$$m 51 + 90 =$$

$$s 71 + 80 =$$



$$r = 23 + 96 =$$



- How to add two numbers with regrouping tens.
- How to regroup 10 tens as 1 hundred.





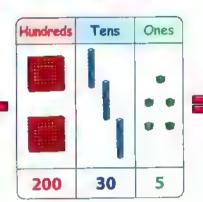


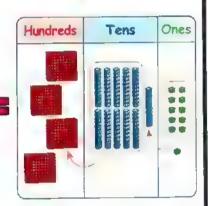
Using place value mat to add 3-digit numbers with regrouping

How can we said 176 + 2357

176 + 235 = 411

| Hundreds | Tens | Ones | |
|----------|------|------|--|
| | | • • | |
| 100 | 70 | 6 | |





| Hundreds | Tens | Ones |
|----------|------|------|
| | | 0 |
| 4 | 1 | 1 |

400 + 10 + 1 = 411

 We regroup 10 ones as 1 ten.

• We regroup 10 tens as 1 hundred.





Daily Practice:

- Invite your child to look at the calendar and ask him/her to draw a circle around today's date.
- Ask your child to write the name of the day and the name of the day before and the day after.
 Key words: Place value mat Regroup



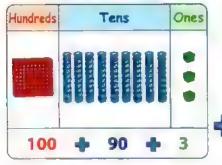




Solve the following problems:

Example





| Hundreds | Tens | Ones |
|----------|------|------|
| | 111 | *** |
| 100 | 30 | + 9 |

| Hundreds | Tens | Ones |
|--|-----------|----------|
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| ************************************** | | • |
| 300 | 30 | 2 |







Tens

Ones

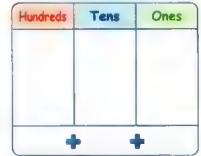




| Tens | Ones |
|------|------|
| | |
| | |
| | |
| | |
| | Tens |



Hundreds













Tens

Ones

| Hundreds | Tens | Ones |
|----------|------|----------|
| | | |
| | | |
| | | |
| | | |
| 4 | | . |



| _ | |
|---|--|
| _ | |
| | |

Hundreds



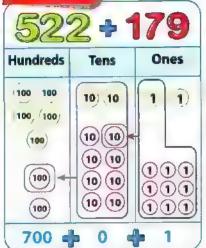
Parents' Tips:

Encourage your child to solve some problems about adding 3-digit numbers using the place value mat.



Match each addition problem with its suitable answer:

Example



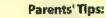
| Hundreds | Tens | Ones |
|-----------|------|------|
| 100 (100) | 10) | 1 |
| 100 (100) | (10) | 1 |
| | (10) | |
| | | |

| Hundreds | Tens | Ones |
|------------|----------|--------|
| 100 100 | 10 10 | 1 1 |
| (100, 100) | (10) | (1) 1, |
| 100 100 | | |
| (100) | 10 10 10 | 1 |
| | 10 10 10 | |

| Hundreds | Tens | Ones |
|-----------|------|------|
| 100 (100) | | 1 |
| 100 (100) | | |
| 100 (100) | | |
| (100) | | |

| b 30 | 3 + | 124 |
|----------|-------|----------|
| Hundreds | Tens | Ones |
| (100) | | |
| 100 | 10 10 | ① ①①① |

| 3 831 | | | |
|--|------|------|--|
| Hundreds | Tens | Ones | |
| 100 100 100 100 100 100 100 100 | 10 | 1 | |
| 800 📲 | 30 • | 1 | |



Ensure that your child can add 3-digit numbers easily using the place value mat.

0



Solve the following problems:

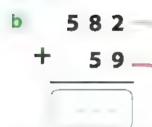
Example

| | 3 | 5 | 2 | |
|---|---|---|---|---|
| + | 1 | 0 | 9 | - |
| - | 4 | 6 | 1 | |

| Hundreds | Tens | Ones |
|-------------|-------------|------|
| 100 100 100 | 10 10 10 10 | 11 |
| 100 | 10 | |

| a | | 2 | 3 | 8 | - |
|---|---|---|---|---|----|
| | + | 1 | 9 | 4 | == |
| | 7 | | | | |

| Hundreds | Tens | Ones |
|----------|--------------|-------------|
| 100 100 | (10) 10 (10) | 01010 |
| (100) | 10 10 10 10 | (1) (1) (1) |
| (100) | 10 10 10 10 | 1111 |



| Hundreds | Tens | Ones |
|----------------------|----------------|-------------|
| 100 100 100 100 (100 | 10 10 10 10 | ① ① ①①①① |
| | 10 10 10 10 10 | 10111 |

| C | | 4 | 8 | 9 | |
|---|---|---|---|---|---|
| | + | 2 | 5 | 7 | _ |
| | | | | | |

| Hundreds | Tens | Ones |
|-----------------|----------------|---|
| 100 100 100 100 | 10 10 10 10 | $\mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O}$ |
| 100 100 | 10 10 10 10 10 | 1111 |



- How to add 3-digit numbers with regrouping.
- How to use the place value mat to represent the addition problems.

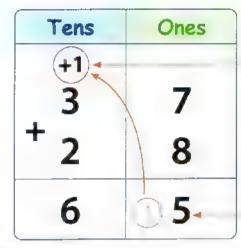






(A) Adding 2-digit numbers with regrouping

How can we add 37 + 387



Keep the tens in the tens column.

Keep the ones in the ones column.

Follow the following steps:

First step: Add the ones digits

$$7 + 8 = 15$$
 ones

Second step: As the place value must contain only one digit so,

1- Keep the first digit 5 in the ones place.

2- Move up the second digit +1 over the tens place.

Third step: Add the tens digits.

$$1 + 3 + 2 = 6$$

Put 6 in the tens place.

Fourth step:

$$37 + 28 = 65$$





Daily Practice:

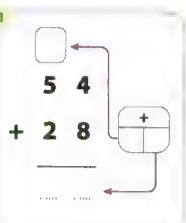
Invite your child to look at the calendar and ask him/her to draw a circle around today's date.
 Key words: Move up - Tens column - Ones column - Move up...Over

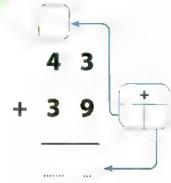


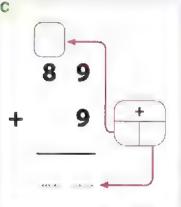


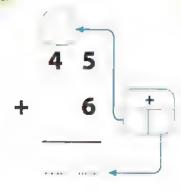
Add:

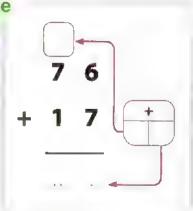
Example

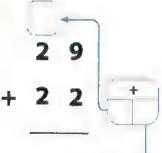


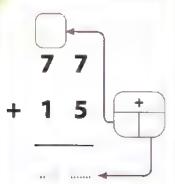


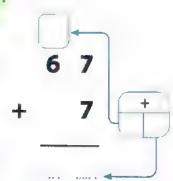






















(B) Adding 3-digit numbers with regrouping

How can we add 376 + 252

| Hundreds T | ens Ones |
|------------|----------|
| +1 3 | 7 6 |
| + 2 | 5 2 |
| 6 | 2 8 |

Follow the following steps:

Add the ones digits First step:

$$6 + 2 = 8$$
 ones

Second step: Add the tens digits

$$7 + 5 = 12$$

Third step: As the place value must contain only one digit so,

1- Keep the first digit 2 in the tens place.

2- Move up the second digit +1 over the hundreds place.

Fourth step: Add the hundreds digits.

$$1 + 3 + 2 = 6$$

Put 6 in the hundreds place.

376 + 252 = 628Fifth step:



Daily Practice:

Encourage your child to count the number of days he/she spent in school and draw a circle around the total number on the 120 chart.



3

2 Add

Example

6 7 7

a



b



C



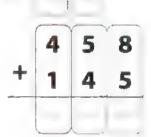
d



е



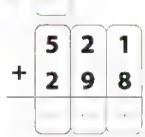
f



G



h



i



j



1.





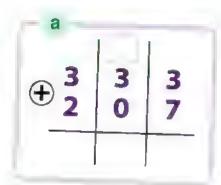






Lesson 89 (B)

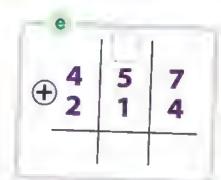
Activity 8 Add:



| - b — | 1 | |
|--------------|-----|---|
| + 6 1 | 4 2 | 3 |
| | | |

| C | | |
|--------------|---|---|
| ± 5 2 | 5 | 5 |
| | | |





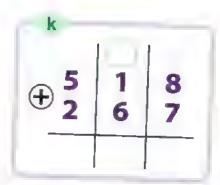
| f + 6 | 9 | 2 |
|----------|---|---|
| | 2 | 4 |

| 7 | g | | | |
|------------|-----|---|---|--|
| (+) | 6 2 | 2 | 2 | |
| Ĺ | | | | |

| h | | |
|------------|-----|-----|
| 3 3 | 2 3 | 1 6 |
| | | |

| 4 2 | 7 | 2 3 |
|------------|---|-----|
| | | |

| j | | |
|----------|---|---|
| 3 | 5 | 3 |
| | | |



| 6 | 3 | 5 |
|----------|---|---|
| + | 6 | 5 |



Parents' Tips:

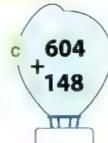
Encourage your child to add 3-digit number with regrouping.

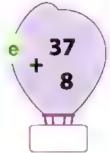




Add Add

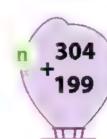






TOU

TT





How to add with regrouping without drawing.







Detecting errors (identify and fix errors)

Being able to detect errors and fix them helps you to learn better. Let's know how to check a mistake and fix it.

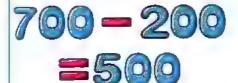
Example 1 + 1 39 14 53

Example 2

Round to estimate

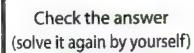
732 - 259

The answer is

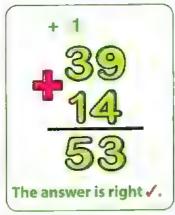




 You can check the answer using your mind or by writing on a piece of paper.



Check the answer (solve it again by yourself)



700 - 300

=400

The answer 500 is wrong X

The right answer is 400.





Daily Practice:

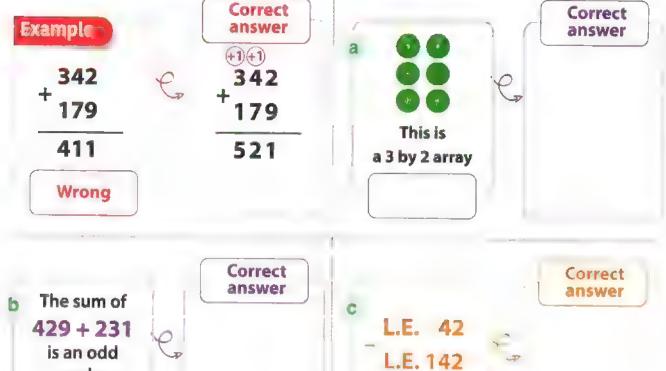
Invite your child to look at the calendar and ask him/her to color today's date in blue.
 Key words: Detecting - Fix - Detective - Check - Right - Wrong - Error

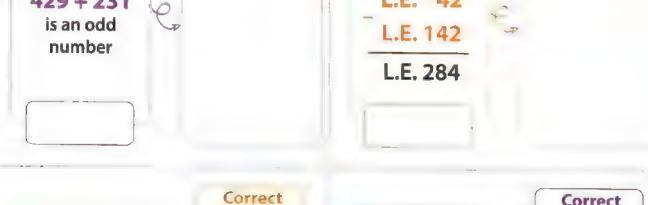






Check each of the following problems and write (right) or (wrong), then fix it:





answer

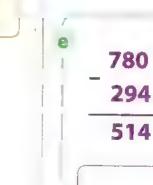
Round to estimate

894 - 618

The answer is

800 - 600

=200









Let your child check the wrong examples.





Look at the following problems, then color the correct problem:

2



This is a 3 by 3 array.

b

The sum of 24 + 38 is an even number.

Using rounding estimation, find

164 + 694

The answer is

100 + 700 = 800

Using front-end estimation

214 - 180

The answer is 200 - 100 = 100

e

L.E. 98

L.E. 472 L.E. 560

Fix the following problems:

8

146

438

400

The actual sum

Front-end estimation

600

Rounding estimation

po-proces Medidaveles

The actual sum

Front-end estimation

Rounding estimation

b 906

249

745

The actual difference

600

Front-end estimation

800

Rounding estimation

DE A THE A DEPARED DE LE

The actual difference

6300+A04440+400-0mm

Front-end estimation



Rounding estimation









Check each problem of the following, then if the answer of the problem is correct mark (\checkmark) , if the answer of the problem is incorrect mark (x):

Example

Estimate the sum

of

54 + 21

The answer is

50 + 30 = 80



a

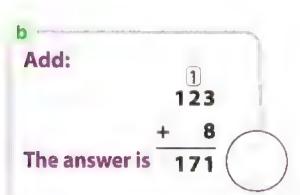
Round

68

to the nearest ten.

The answer is

70



C

Round to estimate the difference of

176 - 82

The answer is

180 - 80 = 100



d

Round

82

to the nearest ten.

The answer is 80



Add:

66

+ 5

The answer is

61





 Show your child some solved problems and ask him/her to check if the answer is correct or incorrect, then help him/her to discover the mistake of the incorrect problems.







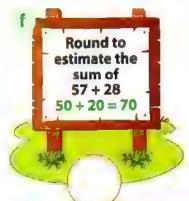


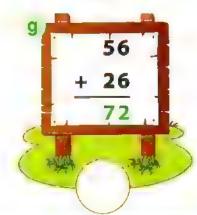
















- How to find the mistakes in some problems.
- How to fix mistakes.





Summary



Use front-end estimation strategy to add or subtract 2-digit numbers.

$$72 - 39
70 - 30 = 40$$

Use rounding strategy to add and subtract 2-digit numbers.

$$39 + 43$$
 $40 + 40 = 80$

$$93 - 79 \\
90 - 80 = 10$$

Use front-end strategy to add or subtract 3-digit numbers.

$$439 + 297$$
$$400 + 200 = 600$$

$$979 - 622$$

 $900 - 600 = 300$

Detect errors and fix them.

Add 3-digit numbers with regrouping.

Add 2-digit numbers with regrouping.

Use rounding estimation strategy to add or subtract 3-digit numbers.

$$873 - 236$$

 $900 - 200 = 700$



General Activities



On Chapter

Round each number to the nearest tens:

a 57 b 83

c 75 d 22 e 39 ...

f 64

g **45**

h 36 i 53 j 78

k 29 131 m 84

n **65** .

。92...

Round each number to the nearest hundreds:

a 284

b 765 c 143 d 937

e 498

522

g 608 h 181

i 875

i 751 ...

k 396 .. 1 412

m 252

n 749

° 536

Round each number to the nearest underlined place value:

a 387

b 445 c 291 d 803 e 528

640

g 353. h 769. i 134 j 218...

(4) Round to estimate, then match:

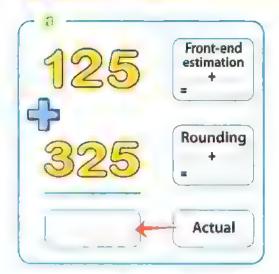
b 732 – 199 =
$$\circ$$

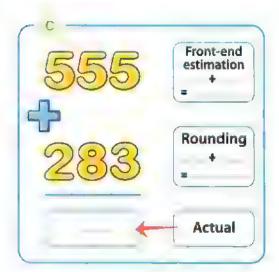


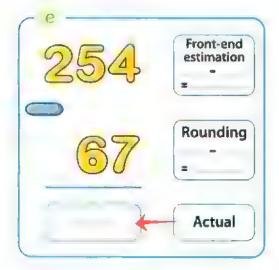
S Add:

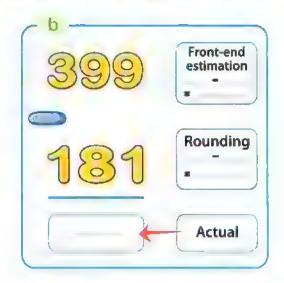


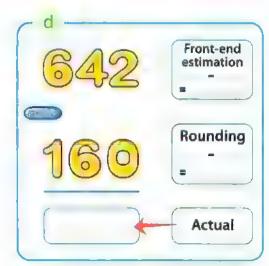
Estimate using front-end and rounding, then write the actual sum or difference:

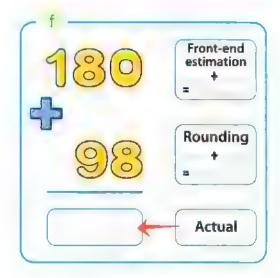








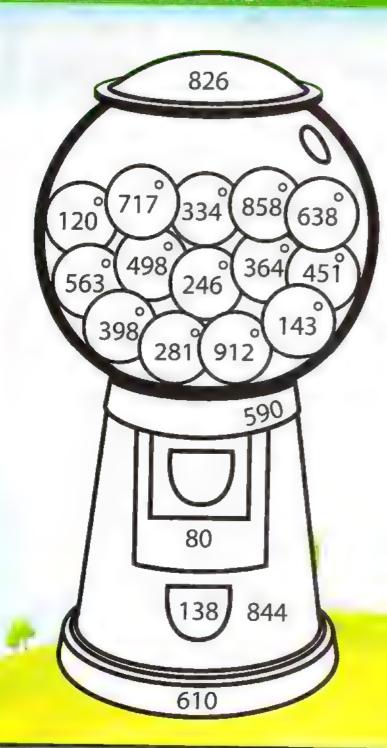


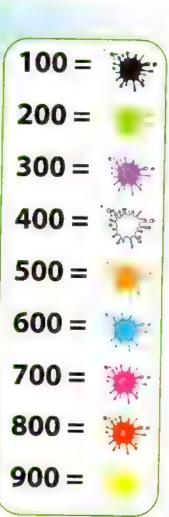




Color by rounding:

Districtions: Color the picture by revenieng or the moment huntilized; using the code:





655



(9): Relation between adding and subtracting (Fact family numbers)

Outcomes

- Create addition & subtraction sentences using fact families.
- Explain the relationship between addition and subtraction.

 Number line

Outcomes

- Use the number line to subtract.
- Explain the relationship between addition and subtraction using a number line.

: Subtraction story problems

Outcomes

- Solve story problems involving subtraction.
- Identify words that give a signal for subtraction to solve a problem.

Decomposing 2-digit numbers

Outcomes

- Decompose 2 digit numbers into combinations of tens & ones.

5): Using cluster strategy to subtract by tens and hundreds

Outcomes

- Apply mental math strategies to subtract by tens and hundreds.
- Subtract groups of 10 using cluster strategy.

Subtracting 2-digit numbers with regrouping

Outcomes

- Use the place value mat to regroup and subtract.
- Subtract 2-digit numbers with regrouping.
- Apply strategies to estimate difference.

Lesson (97): Subtracting 3-digit numbers with regrouping tens

Outcomes

 Subtract 3-digit numbers with regrouping tens using the place value mat.

Subtracting 3-digit numbers with regrouping hundreds

Outcomes

- Subtract 3-digit numbers with regrouping hundreds using the place value mat.
- Solving operation

Outcomes

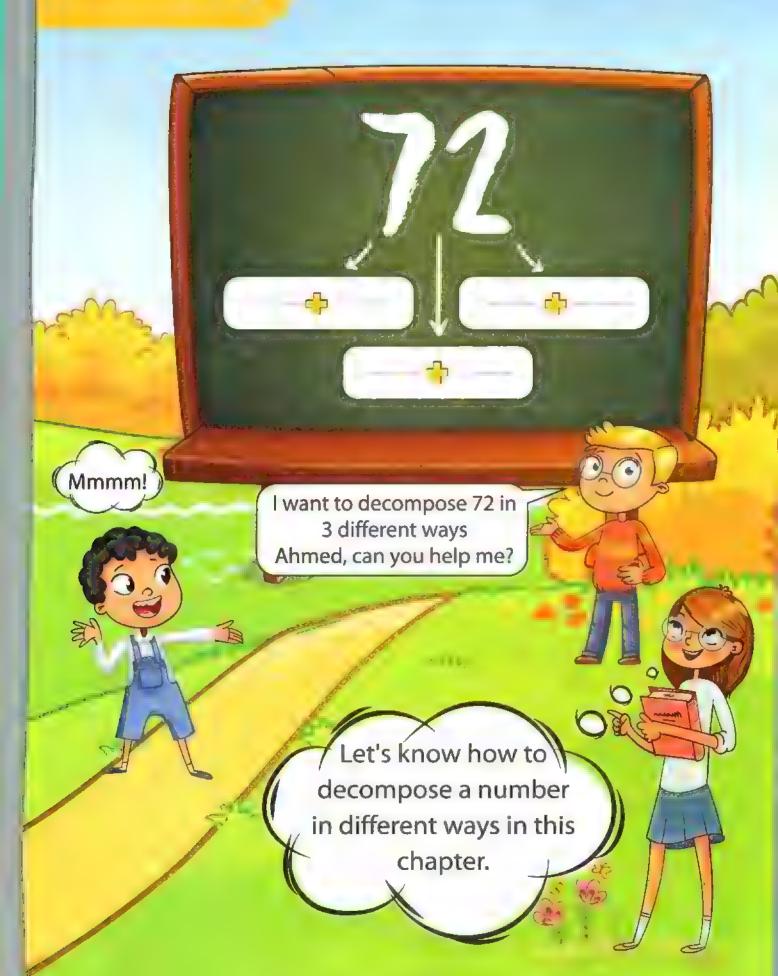
- Subtract 2 digit numbers with regrouping without using the place value mat.
- Use the problem solving operation to subtract 2-digit numbers.

Subtracting 3-digit numbers using problem solving operation

Outcomes

- Subtract 3-digit numbers with regrouping.
- Make the connection between abstract and concrete models of regrouping.





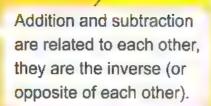


Haintion between odding and subtracting (Foot family numbers)

- My first & second members of my fact family is 8 and 3.
- The third member is their sum 8 + 3 = 11.

11

8



- Addition is commutative
 8 + 3 = 3 + 8. (Order doesn't matter.)
- In subtraction order matters.
 We have to start with the bigger number 11 – 8.

Daily Practice:

- Invite your child to look at the calendar and ask him/her to draw a circle around today s date.
- Ask your child to write the name of today and the name of the day before and the day after.
 Key words: Fact family Inverse Commutative.





Use the following numbers to form the addition and subtraction sentences:



| 3 | 0.00 | | |
|----------------|-------|---|--|
| b – | The L | _ | |
| 13 | 5 | 8 | |
| era sa danda t | | | |

| | - c — | TI TO | |
|---|--------------------|-----------------|---|
| | 9 | 16 | 7 |
| I | Elloadadambaba | · ··· · · · · · | |
| 1 | ********** | | |
| 1 | \$6117 squad 444 c | >>>> | |
| 1 | | _ | |

2

Complete the numbers to make a fact family, then write the addition or subtraction sentences:





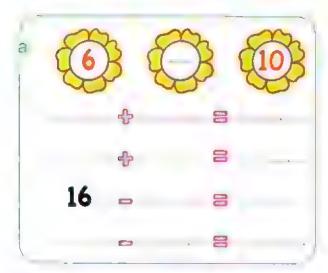


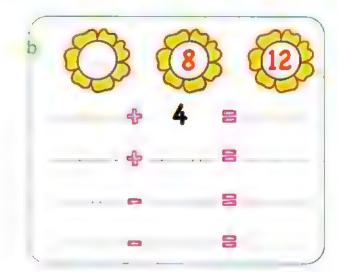
Parents' Tips:

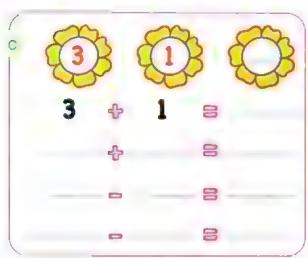
Help your child form a fact family with different members along with their number sentences.

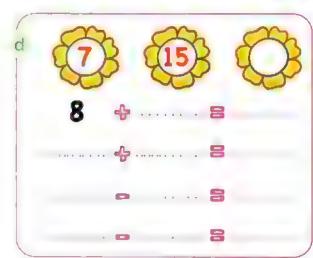


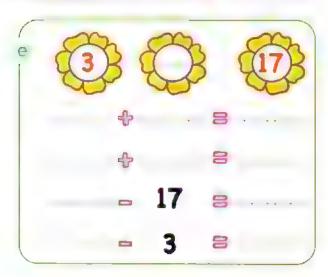
Find the missing numbers in the following fact families:

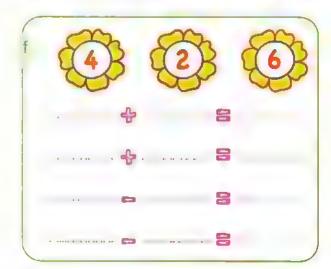
















Color each number sentence according to the color of its fact family:



3+4=7

WALLAND WALLAND WIND WIND WALLAND WALLEND AND THE WALLEND AND THE WALLAND WALLEND AND WALLAND WALLAND AND WALLAND AND WALLAND WALLAND AND WALLAND AND WALLAND WALLAND

$$4 + 3 = 7$$

$$14 - 8 = 6$$



- The relation between addition and subtraction.
- How to create addition and subtraction sentences using fact families.





Number line



We can use the number line to subtract

First: We make a circle around the bigger number 18.

Second: We count back 3 jumps.

Third: At last we land on the result which is 15.



I can represent the same fact family in addition problem using the number line.

$$15 + 3 = 18$$

10 11 12 13 14 15 16 17 18 19 20

Number line: is a great tool that helps us see the distance between numbers making subtraction & addition easier.

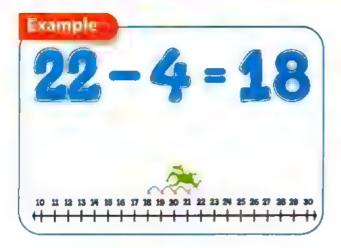


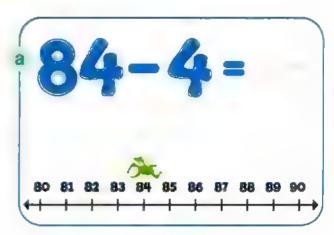
Daily Practice:

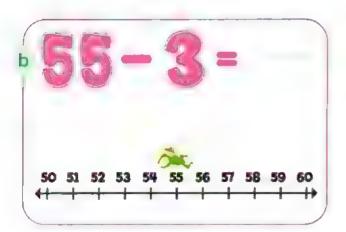
- Ask your child to count the number of days he/she spent in school and draw a circle around the total number in the 120 chart.
- Encourage your child to tell you the name of the day and the name of the month. **Key words:** Number line Count back

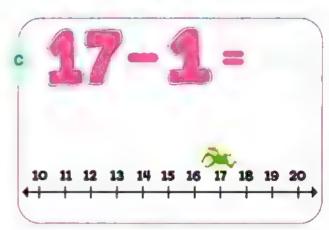


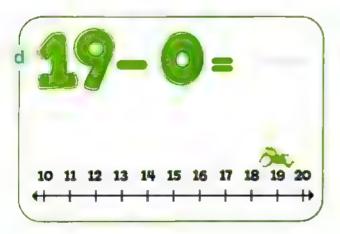
Help the frog hop the correct number of jumps, then write the answer:















Parents' Tips:

Help your child practice solving subtraction problems using the number line.





Complete the following equations using the number line:



a



10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

b

40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

C

60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

C

70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90





Solve with your child some subtraction problems using the number line.



10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

21 - 29

29 - 8

29 - 1

The difference is

30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

47 - 6

39 - 47

47 - 8

The difference is

80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

92 - 5

87 - 92

92 - 15

The difference is

60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

9 - 73

73 - 9

73 - 7

The difference is -

70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90

84 - 8

77 - 84

84 - 7

The difference is

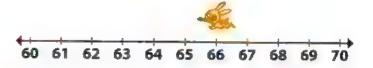


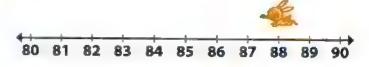




Draw the jumps of the rabbit on each number line, then record its subtraction problem:



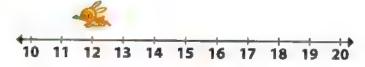
















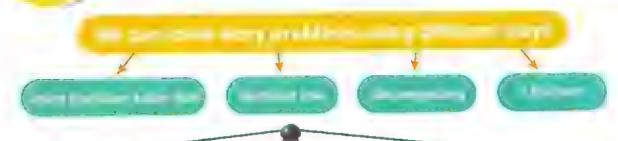
Hearned

- How to use the number line to subtract and add.
- The relationship between addition and subtraction using the number line.





Subtraction story problems



he key words that give a clue for subtraction:

- less than
- How (much or many) more?
- difference
- How (much or many) less?
- left over
- How (much or many) left?

Farida found a Christmas tree with 28 gifts around it, she opened 12 gifts, how many gifts are left over unopened?





12





Subtract tens 20 – 10 = 10 Subtract ones 8 – 2 = 6

10 + 6 = 16





Notice that:

 Order is important in subtraction so we have to start with the bigger number "28".



We can estimate the solution by using rounding strategy as:

$$30 - 10 = 20$$

(It is close to the actual result 16)



Daily Practice:

- Invite your child to look at the calendar and ask him/her to draw a circle around today's date.
- Ask your child to write the name of the day and the name of the day before and the day after.
 Key words: Story problem Left Difference How much How many More Less Left over







Read, think, then solve:

Example

Karim wants to read a book of 78 pages. He read already

12 pages. How much more pages does he need to read to
finish the book?

The difference = 78 - 12

Actual result = 66

Estimation using rounding method is 80 - 10 = 70Estimation using front-end method is 70 - 10 = 60

66 is between 60 and 70

So, the answer is reasonable.



Miss Amira has 39 girls in her class and 21 boys.

Find the difference between the number of girls and the number of boys in Miss Amira's class.



Actual result =

Estimation using rounding method is

Estimation using front-end method is



Salma catches 49 fish in the sea, she puts 17 back, how many fish does she have now?

The difference =

Actual result =

Estimation using rounding method is

Estimation using front-end method is







Help your child solve different story problems that represent the subtraction relation.

Key words

Difference - Actual result - Estimation





2

Read, think, then solve:

a Ali had L.E. 100, he went to a store to buy a video game that cost L.E. 183, how much more money does he need to buy this video game?

The money that Ali needs =



b Nora had L.E. 99, she gave her brother Adam L.E. 58, how much money was left with her?





c Maged had 29 oranges, he used 21 oranges to make some juice. How many oranges were left with him?

The oranges left with Maged =

Estimation using rounding method is .

Estimation using front-end method is ...





- How to solve subtraction story problems.
- How to identify the words that give a clue for using subtraction.









Dacomposing 2-digit rumbers

different ways.

40 + 14







notice that:

 We can decompose the 2-digit numbers to regroup and get a new ten as:

$$55 = 10 + 45$$

$$76 = 10 + 66$$
 and so on.





- Encourage your child to look at the calendar and ask him/her to draw a circle around today's date.
- Help your child draw a circle around the total number of days he/she spent in school in the number chart. **Key words:** Decompose.



Record 3 different ways to decompose each number:

Example

60 + 26

80 + 6

16 + 70



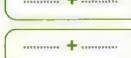




















Help your child decompose 2-digit numbers into different combinations of tens & ones.





Activity



Match each number to its suitable decomposition:































 Decomposing 2-digit numbers into different combinations of tens and ones.









Using cluster strategy to subtract by tens and hundreds

The cluster problem is a set of three or more problems used to solve difficult subtraction problems.



Minuenti = "

Subtrahend

To solve 94 - 43 using cluster strategy, follow the steps:



Problem (1) 94 - 10 = 84

Problem (2) 94 - 20 = 74

Problem (3) 94 - 30 = 64

Problem (4) 94 - 40 = 54

Step (1)

Subtract the 10's of the subtrahend from the minuend.

Step (2)

Subtract the ones of the subtrahend mentally from the fourth cluster problem you get the required difference 51.



- * In the first three or four problems we subtract group of 10's or 100's.
- * When you subtract 10's, the digit in ones place will be the same but the digit in ten's place decreases.
- * In the last problem we subtract the ones of the subtrahend mentally.



Daily Practice:

- Encourage your child to look at the calendar and ask him/her to draw a circle around today's date.
- Help your child tell you the name of the day and the name of the day before and the day after.

Key words: Cluster strategy Subtract - Mentally - Subtrahend - Minuend - Difference





Use the 120 chart to solve by using the cluster problems:



| | | | | | | 740 | - | - | |
|-----|------|------------|-----|------|-----|-------|-----|-----|-----|
| 1_ | 2 | 3 | 4 | S | 6 | 1 | 8 | 3 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 1 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | /53 | 54 | . 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 |
| 311 | 112 | 113 | 114 | 115 | 116 | . 117 | 118 | 119 | 120 |









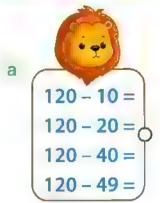


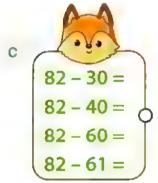
⁻ Help your child solve some cluster problems using the 120 chart.

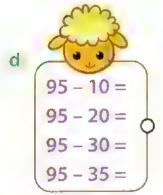


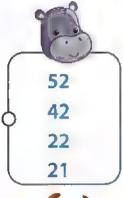


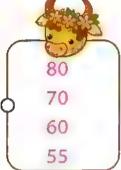


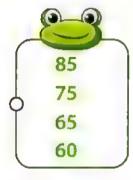


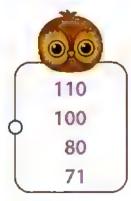














Parents' Tips:

Encourage your child to find the result of cluster problems.





(Activity (3) Subtract, then color the suitable answer in each of the following:

a

$$65 - 10 = 55$$

$$65 - 20 = 45$$

$$65 - 30 = 35$$

$$65 - 35 = \dots$$

45

30

b

$$170 - 10 = 160$$

$$170 - 30 = 140$$

$$170 - 40 = 130$$

25

C

$$320 - 10 = 310$$

$$320 - 30 = 290$$

$$320 - 40 = 280$$

300

180

d

$$140 - 10 = 130$$

$$140 - 20 = 120$$

$$140 - 40 = 100$$

80



How to use cluster problems to subtract mentally.



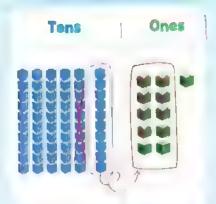


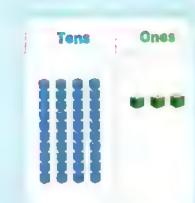


Subtracting 2-digit numbers with regrouping

To subtract 61 - 18

61





we draw the place value mat of the minuend 611 First: Second: we take way the subtrahend (18 as follows:

- 1) We start with ones, we can't take away 8 from 1 so we need to regroup 1 tens as 10 ones
- 2) Now, we have 11 8 = 3 in the ones place.
- 3) We subtract the tens:

5 tens - 1 tens = 4 tens

so my result is 43 Third:







We can also estimate the result using:

- 60 10 = 50Front-end estimation
- Rounding estimation 60 - 20 = 40So, my actual result is near to my rounding estimation.



Daily Practice:

Encourage your child to look at the calendar and ask him/her to draw a circle around today's date.

Encourage your child to tell you the name of the current day and the current month.

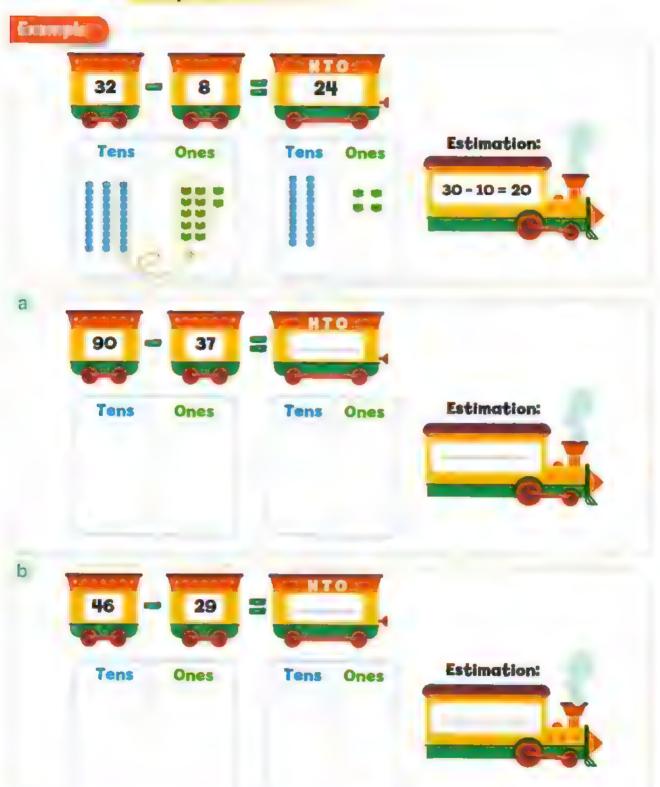
Key words: Subtract - Regroup - Estimation - Actual result - Minuend - Subtrahend - Difference







Estimate using rounding estimation, then subtract using the place value mat:



Parents' Tips:

- · Help your child subtract 2-digit numbers with regrouping.
- Practice with your child to solve subtraction problems using the place value mat.



2

Subtract each of the following problems:

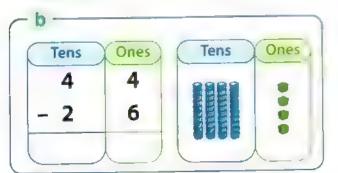
| Example | |
|-----------|-----------|
| Tens Ones | Tens Ones |
| 5 1 | |
| - 1 7 | |
| 3 4 | 80000 |

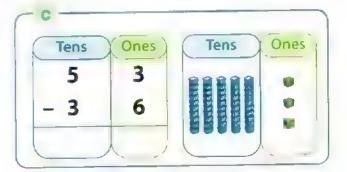
| Tens Ones | Tens Ones |
|-----------|---------------------|
| 3 5 | |
| - 1 9 | Title of the second |
| | |

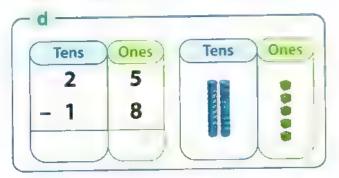


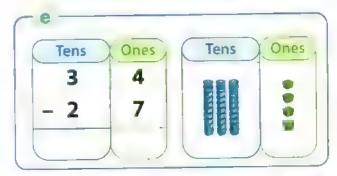
Notice that:

• The drawn number is the minuend and we cross out the subtrahend.











How to subtract 2-digit numbers with regrouping
 1 tens as 10 ones using the place value mat









Subtracting 3-digit numbers with regrouping tens

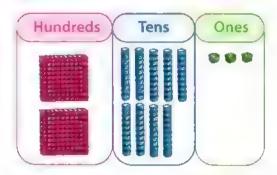
How can we find the difference of 293 - 146?



To subtract using the place value mat, follow the steps:

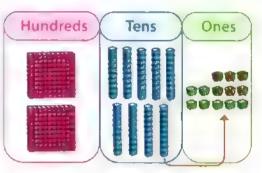
First

Draw the place value mat of the minuend 293



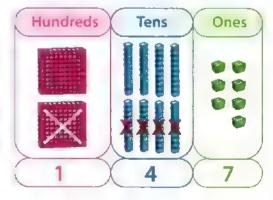
Second

- 1 Start to subtract with ones, you cannot take away 6 ones from 3 ones.
 - So, decompose 1 tens as 10 ones
- 2) You get 3 + 10 = 13 ones.
- 3 Cross out 6 ones from 13 ones you get 7 ones.
- 4 Now there are only 8 tens.





- 1 In the tens place cross out 4 tens from 8 tens you get 4 tens.
- 2 In the hundreds place cross out 1 hundreds from 2 hundreds you get 1 hundreds.



Fourth

The difference is 147



Daily Practice:

• Encourage your child to look at the calendar and ask him/her to draw a square around today's date. **Key words:** Minuend - Difference - Subtract - Regroup.



| Autotti (1) | Subtract, then | estimate the | difference |
|-------------|----------------|--------------|------------|
|-------------|----------------|--------------|------------|

| | 140 | - 128 | | | A 1 -1:66 |
|-----|----------|-------|----------|---|-------------------|
| a | Hundreds | Tens | Ones | | Actual difference |
| | | | | = | Estimation |
| | | | | | Estimation |
| | | | | | |
| | 348 | - 119 | | | Actual difference |
| b (| Hundreds | Tens | Ones | | Actual difference |
| | | | | = | Estimation |
| | | | | | Estimotion |
| | | | | | |
| | 192 | - 164 | | | Actual difference |
| C | Hundreds | Tens | Ones | | Actual difference |
| | | | | = | Estimation |
| | | | | | |
| | | | | | |
| | 254 | - 136 | | | Actual difference |
| d (| Hundreds | Tens | (Ones) | | |
| | | | | = | Estimation |
| | | | | | |
| | | | | | |
| | 191 | - 139 | | | Actual difference |
| e | Hundreds | Tens | Ones | | |
| | | | | | |



Parents' Tips:
• Encourage your child to solve different subtraction problems with regrouping.



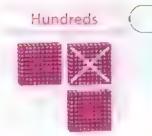
Estimation



Estimate using the front-end estimation, then find the difference:

Europhy

| Hundreds | Tens | Ones |
|----------|------|------|
| 3 | 3 | 2 |
| 1 | 1 | 9 |
| 2 | 1 | 3 |

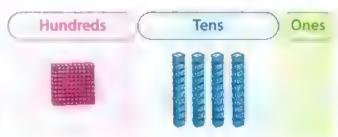


| Tens | Ones |
|---------------------------|--------------------------|
| Charleshier Charles II | 6 6 6 6 6 6 6 6 |

Estimation:

300 - 100 = 200

| a | Hundreds | Tens | Ones |
|---|----------|------|------|
| | 1 | 4 | 0 |
| | 1 | 2 | 9 |
| | | | |



Estimation:

| b | Hundreds | Tens | Ones |
|---|----------|------|------|
| | 4 | 3 | 6 |
| | 2 | 2 | 8 |
| | (| , , | |



| Ones | |
|-------|---|
| 9 9 9 | (|

Estimation:

| C | Hundreds | Tens | Ones |
|---|----------|------|------|
| | 6 | 5 | 7 |
| | 3 | 1 | 9 |
| | , | ** | |

| Н | undre | ds | (| |
|---|-------|----|---|-------------|
| | | | | ANTONIO COL |



Estimation:



Hearned

How to subtract 3-digit numbers with regrouping
 1 tens as 10 ones.



1 tens = 10 ones





Subtracting 3-digit numbers with regrouping hundreds

How can we find the difference of 413 - 231?



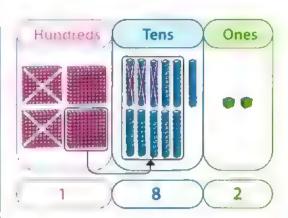
First

- 1 Draw the place value mat of the minuend 413
- 2 In the ones place cross out 1 ones from 3 ones to get 2 ones.

Hundreds Tens Ones

Second

- 1 In the tens place you cannot take 3 tens from 1 tens. so, decompose 1 hundred as 10 tens.
- 2 You get 10 tens + 1 tens = 11 tens
- 3 Cross out 3 tens from 11 tens you get 8 tens.
- 4 Now there are only 3 hundreds.
- 5 In the hundreds place cross out 2 hundreds from 3 hunderds you get 1 hundreds.



Third

The difference is 182





Daily Practice:

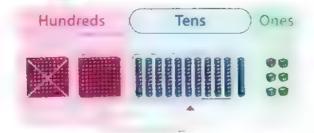
• Encourage your child to look at the calendar and ask him/her to draw a blue circle around today's date. **Key words:** Regroup - Minuend - Difference - Cross out



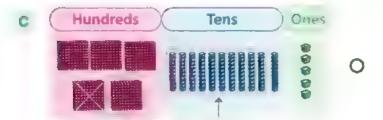




Example









Parents' Tips:

Encourage your child to solve subtraction problems.





(2)

Estimate using front-end estimation, then subtract using the place value mat:

| | 708 - | - 398 | © # # # # # # # # # # # # # # # # # # # |
|---|----------|-----------|---|
| a | Hundreds | Tens Ones | - Estimation |
| | 516 | - 182 | |
| b | Hundreds | Tens Ones | Actual difference Estimation |
| | | - 162 | |
| C | Hundreds | Tens Ones | Actual difference Estimation |



Parents' Tips:

Ensure that your child can estimate, then find the difference easily.







Subtract using the place value mat, then color the circle according to the key if the difference (Rounding to 300 in green) or (Rounding to 200 in):



- The difference is
- The difference rounding to



- The difference is _______
- The difference rounding to _____



- The difference is ______
- The difference rounding to



- The difference is
- The difference rounding to ----



How to subtract 3-digit numbers with regrouping 1 hundreds as 10 tens.



=





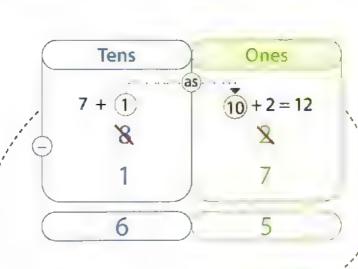




Subtracting 2-digit numbers using problem solving operation

How to subtract 82 – 17 without using the place value mat





Second Step

Subtract the tens digits

7 tens – 1 tens = 6 tens

So, the final result will be

82 – 17 = 65

1 In the ones digit we cannot take away 7 ones from 2 ones.

First Stop

So, we will take 1 tens from 8 tens in the tens place (as 10 ones).

- Add 10 ones + 2 ones = 12 ones
- Now subtract

 12 ones 7 ones = 5 ones.
- (4) 8 in the tens place will be 7 tens.



Daily Practice:

• Encourage your child to look at the calendar and ask him/her to draw a red triangle around today's date.

Ensure that your child can solve subtraction problems with regrouping.

Key words: Subtraction







1

Subtract each of the following:



| | A R | |
|---|------|------|
| b | Tens | Ones |
| | 8 | 3 |
| | 3 | 5 |
| | | |

| C | _1 | Tens | Ones |
|---|----|-------------|------|
| | _ | 5 | 2 |
| | _ | 4 | 6 |
| | | | |



| - all belle | | |
|-------------|------|--|
| Tens | Ones | |
| 2 | 8 | |
| 1 | 9 | |
| | | |

| е | Tens | Ones |
|---|------|------|
| | 6 | 0 |
| | 4 | 8 |
| | | |

| Tens | Ones | |
|------|------|--|
| . 1 | 9 | |
| - | 7 | |
| | | |



| | | ./_ |
|---|------|-----|
| h | Tens | On |
| | 2 | 1 |
| | - | |
| | | 5 |
| | | |

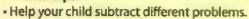
| R. A | | |
|-----------|---|--|
| Tens Ones | | |
| 8 | 0 | |
| 4 | 2 | |
| (| | |

| j | Tens | Ones |
|---|------|------|
| | 9 | 7 |
| | 4 | 9 |
| | | |

| Tens | Ones |
|------|------|
| 3 | 2 |
| | 7 |
| | |

| 90 | | | |
|------|------|--|--|
| Tens | Ones | | |
| 6 | 1 | | |
| 3 | 0 | | |
| | | | |









Authority

Find the difference, estimate, then color according to the key:

3 4 1 5



Rounding to 30 red Rounding to 20 blue

* Rounding to 10 yellow



C



9 0 5 7

7 5 5 7

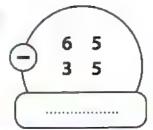
f



g 6 2 2 9

5 5 2 6

į



3 4 1 9

9 4 7 7



l fournest

 How to subtract 2-digit numbers with regrouping using problem solving operation.







Subtracting 3-digit numbers using problem solving operation



How to subtract without using the place value mat

| Hundreds | Tens | Ones |
|----------|-------|------|
| 5 | 8 | 3, |
| 2 | 3 | 9 |
| 3 | Fa.g. | |

First Step

In the ones place:

- 9 ones from 2 one so, we will take 1 from 8 in the tens place (as 10 ones) and add to 3 ones to get 13 ones.
- 2 Subtract 13 9 = 4
- 3 8 becomes 7 in the tens place.

Second Step

in the tens place subtract:

$$7 - 3 = 4$$

Third Step

In the hundreds place

subtract:

$$5 - 2 = 3$$





- Encourage your child to look at the calendar and ask him/her to draw a circle around today's date.
- Help your child draw a circle around the total number of days he/she spent in school on the number chart.
 Key words: Subtraction Tens Ones Problem solving



How to subtract 538 – 182 without using the place value mat

| Hundreds | Tens | Ones |
|-------------------------|------|------|
| 4 - · · 5 | | 8 |
| -) | 8 | 2 |
| 3 | 5 | 6 |

First Step

In the ones place subtract:

8 - 2 = 6 ones

Second Step

In the tens place:

- 1) We can not take away 8 tens from 3 tens so, we will take 1 from 5 in the hundreds place as 10 tens.
- 2 Add it to 3 tens to form 13 tens.
- 3 Subtract 13 – 8 = 5 tens.
- 4 5 becomes 4 in the hundreds place.

Third Step

In the hundreds place subtract:

4 - 1 = 3 hundreds



Parents' Tips:

Ensure that your child can solve subtraction problems with regrouping.





Subtract each of the following:

a

1 4 8

b

380

C

$$-\frac{590}{286}$$

.......

d

$$-\frac{985}{67}$$

e

$$-417$$
 253

....

f

$$-\frac{494}{287}$$

.....

q

$$-\frac{918}{27}$$

.. .. .,

h

$$\begin{smallmatrix} 9&7&6\\ 3&9&4\end{smallmatrix}$$

i

i

$$-\frac{706}{322}$$

...........

k

$$-453$$

....

1

$$-\frac{3}{2}\frac{3}{7}\frac{0}{4}$$

m

$$-\frac{879}{774}$$

....

n

.....

0

$$-\frac{987}{395}$$

p







Subtract each of the following:

Example







Match each problem with its suitable answer:





4 6 8



8 3 9 3 8 7

Estimation:

Actual result:



928

Estimation:

Actual result:



689

1 2 6

Estimation:

Actual result:



- 5 7 6 2 8 4

Estimation:

Actual result:



- 7 5 2 - 2 3 7

Estimation:

Actual result:



9 3 9

3 9 9

Estimation:

Actual result:



9 8 0 8 - 2 7 7

Estimation:

Actual result:



- 8 0 9 - 3 5 9

Estimation:

Actual result:



9 3 0

3 8 4

Estimation:

Actual result:



Hearned

How to subtract using problem solving operation.









Create addition and subtraction sentences using the fact family:

$$7 + 8 = 15$$

$$8 + 7 = 15$$

$$15 - 8 = 7$$

$$15 - 7 = 8$$

Explain the relation between (+) and (-).

Use the number line to subtract.

Soive subtraction story problems with key words

Less than

Difference

Left over

How (much / many) more?

How (much / many) less?

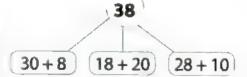
How (much / many) left?

Subtract 2-digit and 3-digit numbers with regrouping using problem solving operation.

Subtract 2-digit and 3-digit numbers with regrouping 1 tens as 10 ones, 1 hundreds as 10 tens using the place value mat.

Use the cluster strategy to subtract by tens and hundreds.

Decompose 2-digit numbers using different ways.

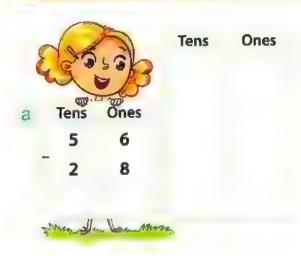




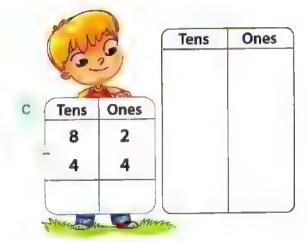
General Activities on Chapter



Solve the following using the place value mat:



| | | Tens | Ones |
|------|-------|------|------|
| E. | 5 | | |
| Tens | Ones | | |
| 4 | Olles | | |
| | _ | | |
| | 5 | | |
| | } | | |



| 100 | | Tens | Ones |
|------|--|------|------|
| E. | 学 | | |
| | WAR TO THE REAL PROPERTY OF THE PROPERTY OF TH | | |
| Tens | Ones | | |
| 5 | 0 | | |
| 2 | 3 | | |
| | | | |

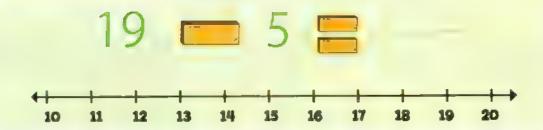
| | Tens | Ones |
|------|------|-----------|
| | | |
| Ones | | |
| 7 | | |
| 9 | | |
| | | |
| | 7 | Ones 7 |

| 5 | | Tens | Ones |
|----------|----------|------|------|
| 40 | 3 3 | | |
| - Can | S | | |
| Tens | Ones | | |
| 6 | 4 | | |
| _ 3 | 7 | | |
| | | | |
| | | | |

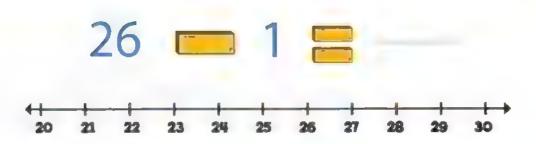


Solve the following equations using the number line:

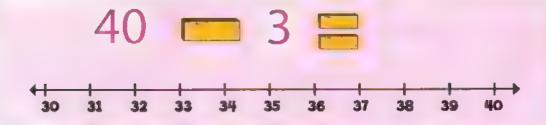




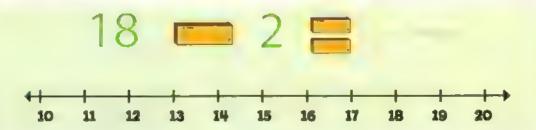
b



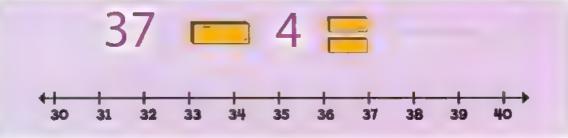
C



d



e





Read, think, then solve:

a Ali bought 95 cupcakes for his sister's birthday party, he found that 20 of them have been eaten by his family. How many cupcakes were left?

b Mai had L.E. 87, she gave her brother Khaled L.E. 62.

How much money was left with her?



c Sally had L.E. 83, she went to a store to buy a dress that cost L.E. 195. How much more money did she need to be able to buy this dress?





Use the fact family numbers to write the following addition and subtraction sentences:







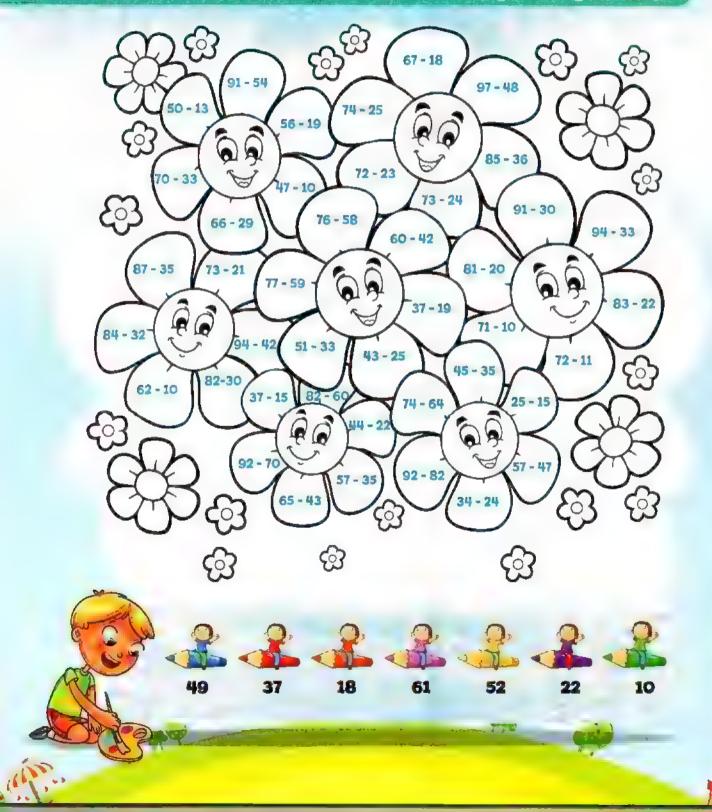


Subtract each of the following:





Sales the following problems. Then color according to the given key.



Chapter 5



Lesson (101): Equal parts and unequal parts

- Identify equal and unequal parts of a whole.
- Create halves, thirds and fourths of circles.

Components of a fraction

Outcomes:

- Build a fraction using the numerator and denominator digits.
- Identify the components of the fraction.

Lesson (103): The fraction its numerator is 1

Outcomes:

- Investigate fractions with a numerator is 1
- Make connections between the images of fractions and fraction names.
- Identify multiple ways to divide a rectangle into fractional parts.
- Create fractions using a word or number clue.

The fraction its numerator is greater than 1

Outcomes:

Investigate fractions with a numerator greater than 1

Lesson (105): The relation between fractions and the whole one

Outcomes:

• The relation between the fraction and the whole one.

The relation between fractions of the same whole

Outcomes

 Identify the relation between two fractions if they are the same fraction or different fraction.

Lessons (107&108): Fractions of a set of objects

Outcomes:

- Identify and write fractional parts of a set.
- Compare fractions of a whole and parts of a set.
- Describe equal parts of a whole using fraction vocabulary.

Fraction story problems

Outcomes:

Solve story problems involving fractions.

Warm up

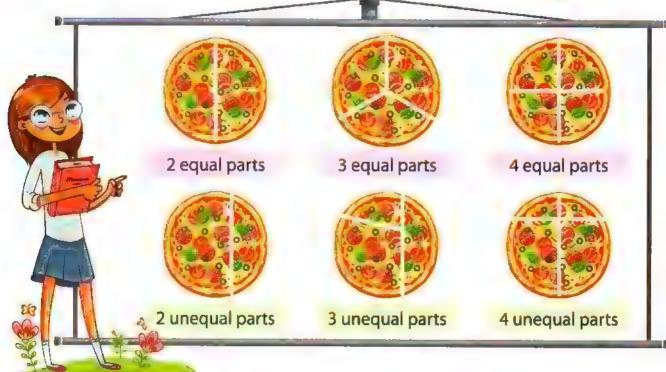




Equal parts and unequal parts

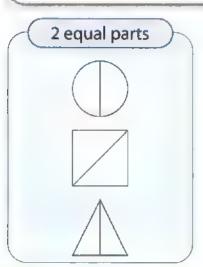
Let's share a pizza into different parts.

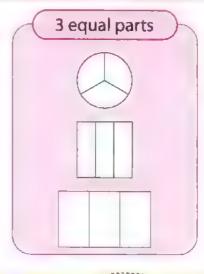


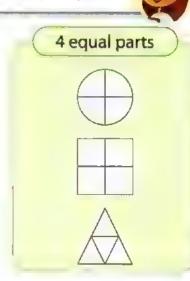


- Equal parts mean that all the parts have to be in the same size.
- . Unequal parts mean that all parts have to be different in size.

Let's know how to divide some different shapes into equal parts.









- Invite your child to look at the calendar and ask him/her to draw a circle around today's date in which school begins.
- Ask your child to write the name of the day and the name of the day before and the day after. **Key words:** Equal parts Unequal parts Same Different



Notice the shape with its parts and color the correct word: Example equal parts equal parts unequal parts unequal parts equal parts equal parts unequal parts unequal parts equal parts equal parts unequal parts unequal parts g equal parts equal parts unequal parts unequal parts



Help your child to recognize the meaning of equal parts and unequal parts of some shapes.

equal parts

unequal parts



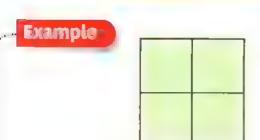
equal parts

unequal parts



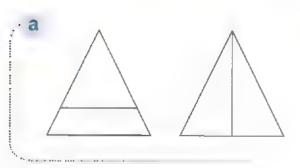


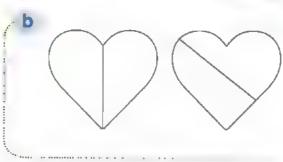
Look at each set of shapes, then color the shape with equal parts:

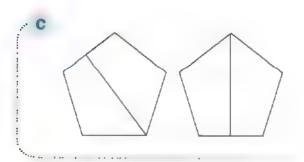


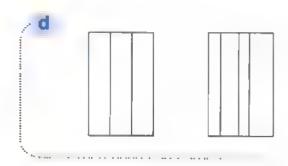


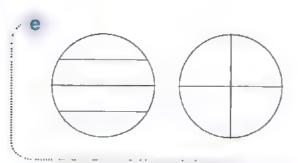














Parents' Tips

 Encourage your child to know the shapes which are divided into equal parts and ask him/her to color them.







Write the number of equal parts of each shape if the shape has unequal parts write 0:

HOW MANY EQUAL PARTS?

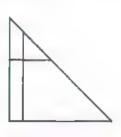
a

b

C

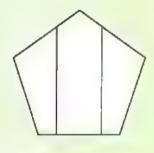


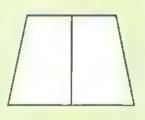


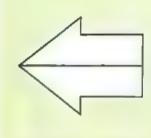


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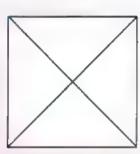
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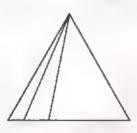




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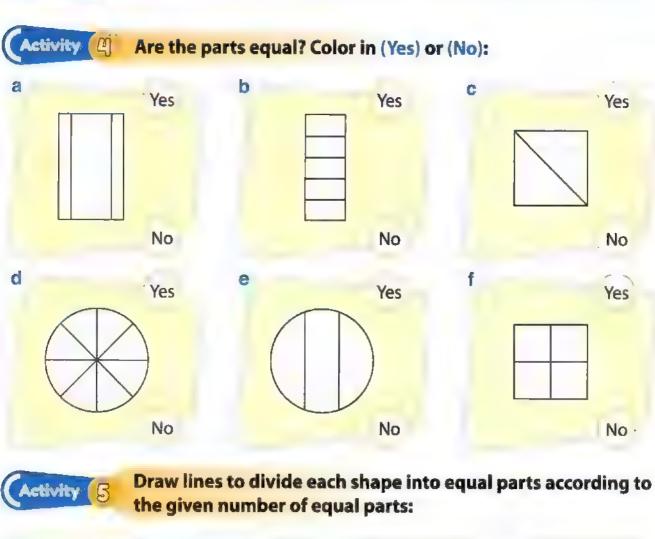
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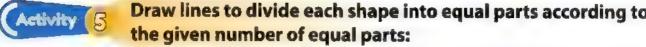


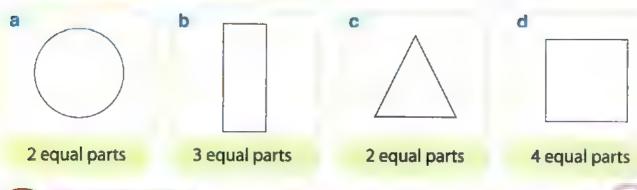
Parents' Tips

- Give your child some shapes and ask him/her to tell you the number of equal parts of each shape.











- Recognizing the equal parts.
- Recognizing the unequal parts.





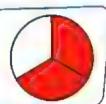


Components of a fraction

- A fraction is a part of a whole.
- To form a fraction you must use equal parts of a whole.



- The opposite circle is divided into a 3-equal part.
- The red part can be written as fraction $\frac{2}{3}$



The numerator

The top number that shows how many equal parts we have (colored parts).

The denominator



The bottom number that shows how many equal parts in the whole (all equal parts).

A fraction bar



A line between the numerator and denominator.





Daily Practice:

 Invite your child to look at the calendar and ask him/her to draw a blue circle around today's date. Key words: Fraction - Fraction bar - Denominator - Whole - Numerator - Equal parts





Activity

9

Build the fraction, then color:

Example

A fraction, its numerator is 1 and its denominator is 3

 $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$

A fraction, its numerator is 2 and its denominator is 3

 $\frac{1}{3}$ $\frac{2}{4}$ $\frac{2}{3}$

A fraction, its numerator is 3 and its denominator is 4

 $\frac{2}{3}$ $\frac{2}{4}$ $\frac{3}{4}$

A fraction, its numerator is 1 and its denominator is 4



A fraction, its numerator is 2 and its denominator is 4

 $\frac{2}{4}$ $\frac{2}{3}$ $\frac{1}{4}$

A fraction which represents a half

 $\frac{1}{3}$ $\frac{2}{4}$ $\frac{2}{3}$

Parents' Tips:

• Help your child build some fractions in which its numerator and denominator are given.

Key words: Fraction - Numerator - Denominator



Activity Build the fraction, then match:

l'm a fraction, my numerator is 1 and my denominator is 4



l'm a fraction,
my numerator
is 2 and my
denominator is 3



or I'm a fraction,
my numerator
is 3 and my
denominator is 4



I'm a fraction,
my numerator
is 3 and my
denominator is 3

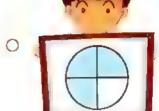




How to build a fraction.

















d





The fraction its numerator is 1

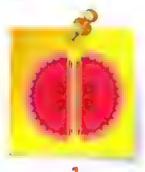
1" THE HALF



One whole



When we divide a cake into two equal parts (Halves), each part is a half of the whole cake.



2

2 equal parts

Each part is a half $(\frac{1}{2})$,

Numerator is the top number of the fraction.

Denominator is the bottom number of the fraction

The fraction bar is the line in between the top and the bottom numbers.

One whole = 2 halves

- 2 is the total number of equal parts.
- The fraction is called one half.
- This fraction we can read as 1 over 2.





parts

Trace:





- Invite your child to look at the calendar and ask him/her to draw a circle around today's date.
- Ask your child to count the number of days he/she spent in school and draw a circle around the total number of days in the 120 chart.

Key words: Equal parts - Halves Half - Numerator - Denominator - Fraction bar



" THE THIRD



One whole

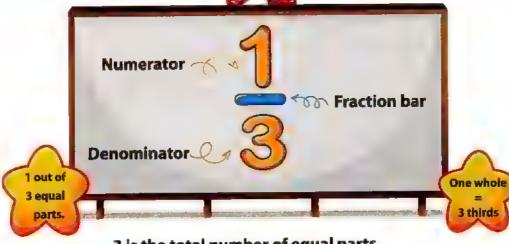


When we divide a cake into three equal parts (thirds), each part is a third of the whole cake.



3 equal parts

Each part is a third $(\frac{1}{2})$.



- 3 is the total number of equal parts.
- The fraction is called one third.
- This fraction we can read as 1 over 3.

Trace:



Parents' Tips:

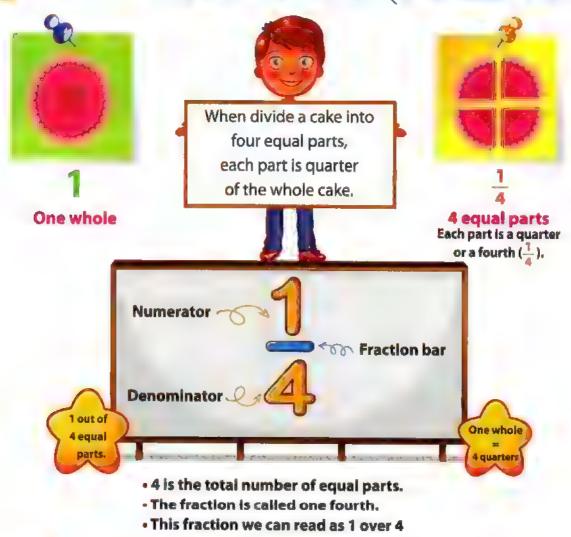
Encourage your child to recognize the fraction of the third.

Key words: Third - Numerator - Denominator - Fraction - Equal parts

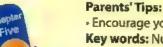


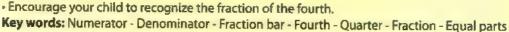


The quarter (fourth)



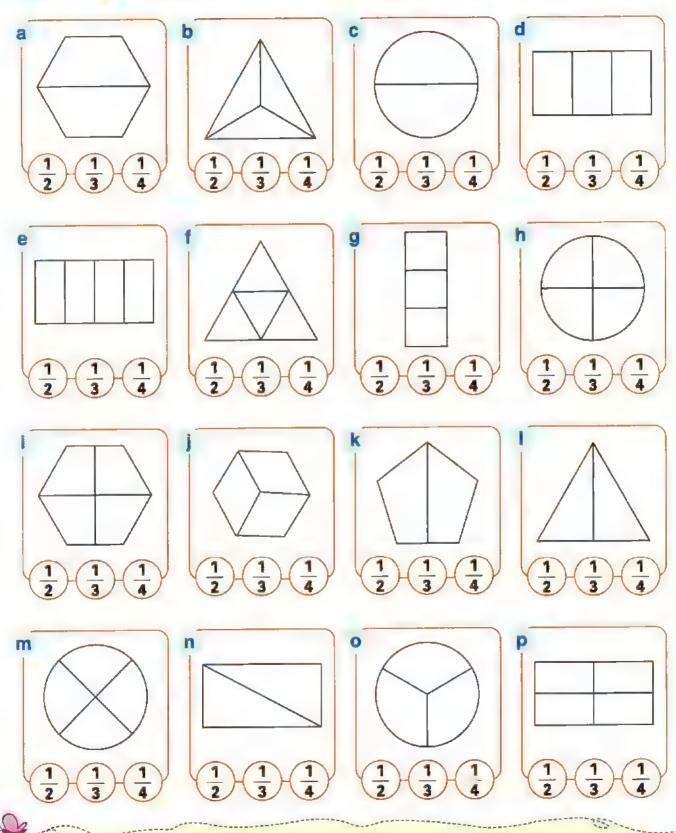








Activity (4) Color one of the parts, then color the matching fraction:



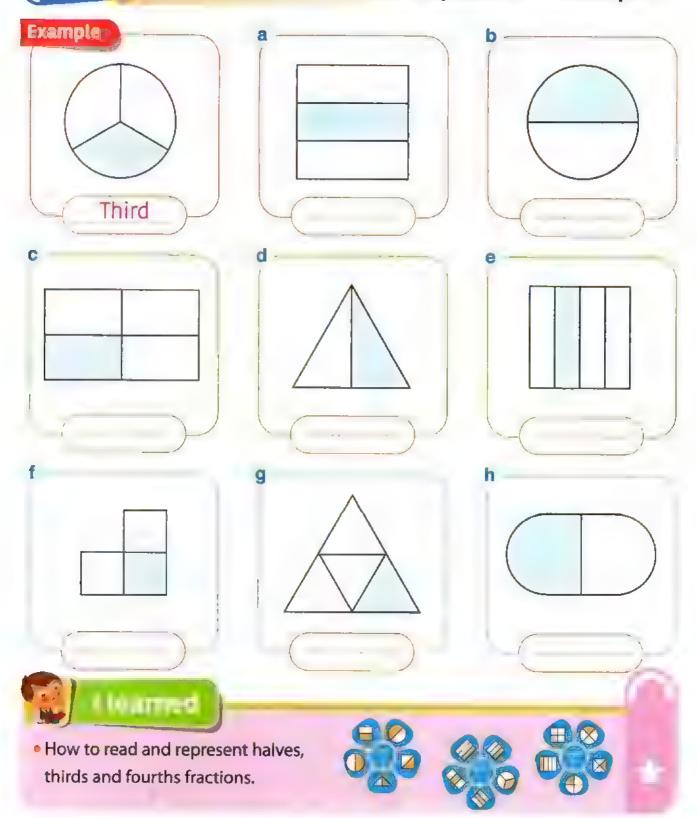
Parents' Tips:

- Encourage your child to color some parts of some shapes according to the fraction.



Chapter 5

Activity S Write the fraction in words that represents the shaded part:







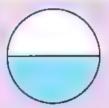
The fraction its numerator is greater than 1

When we build a fraction:

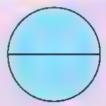
First: we count the number of the shaded parts and write it as a numerator. Second: we count the number of all equal parts and write it as a denominator.



Observe the shaded part



The shaded part is $\frac{1}{2}$ of the circle. (One half)



The shaded part is $\frac{2}{3}$ so it is a whole circle. (Two halves)



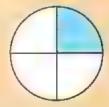
The shaded part is $\frac{1}{2}$ of the circle. (One third)



The shaded part is $\frac{2}{3}$ of the circle. (Two thirds)



The shaded part is $\frac{3}{2}$ so it is a whole circle. (Three thirds)



The shaded part

(One quarter)

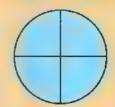


The shaded part is $\frac{1}{4}$ of the circle. is $\frac{3}{4}$ of the circle.



The shaded part

(Two quarters) (Three quarters)



The shaded part is $\frac{4}{4}$ so it is a whole circle.

(Four quarters)

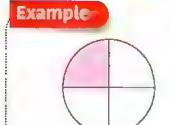


Daily Practice:

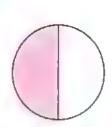
- Invite your child to look at the calendar and ask him/her to draw a circle around today's date.
- Ask your child to write the name of the day and the name of the day before and the day after. Key words: Quarter - Third - Halves - Half - Whole - Fraction - Numerator - Equal parts



Tick (✓) the fraction that the colored part shows:

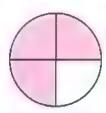




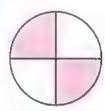












Activity

Draw lines to divide each shape according to the given fraction, then color it:

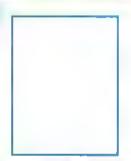
Example





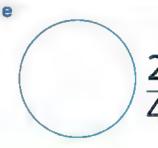






d





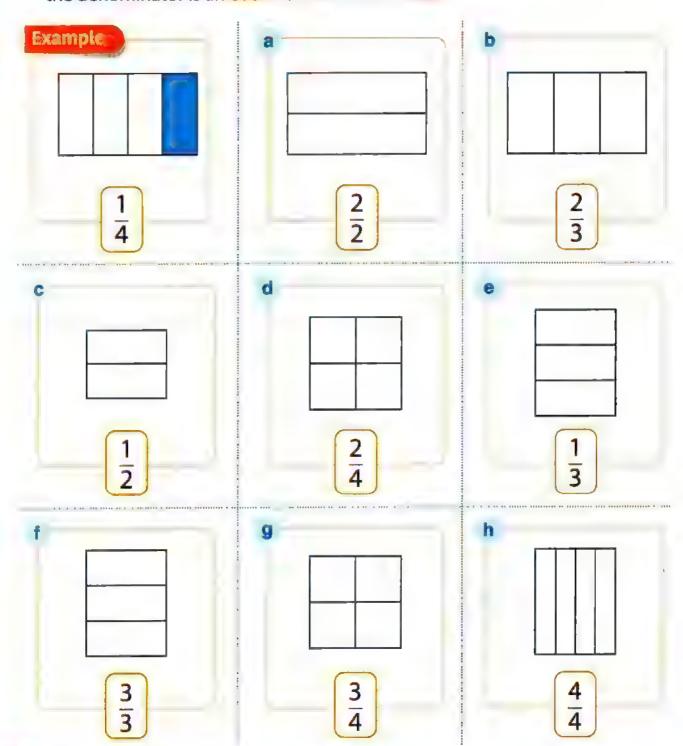
Parents' Tips:

- Encourage your child to determine the fraction that represents the shaded part(s).
- Encourage your child to divide some shapes into known fractions.



Activity (3) Notice each fraction and color:

 When the denominator is an odd number, color in blue and when the denominator is an even number color in red:





Encourage your child to build fractions.

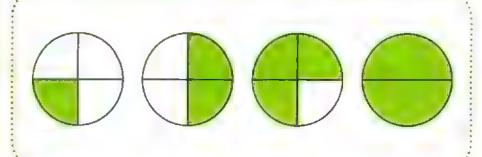




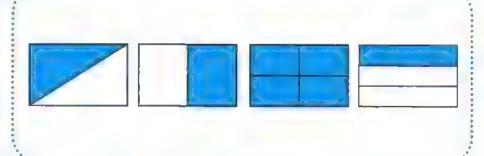
Activity Underline the shapes that represent the shown fraction:

a

3

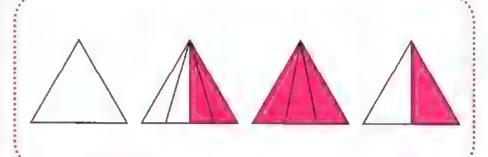


1 2



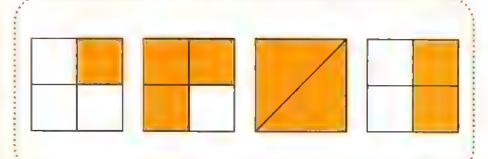
C

3



d

2



Parents' Tips:

Encourage your child to build fractions.





Activity (3) Tick (/) the shape that represents a fraction, then write the fraction:

a



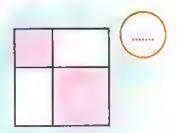


b



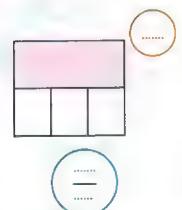


c

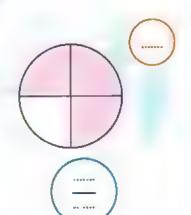




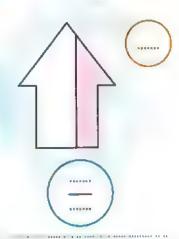
d



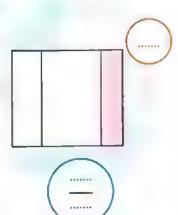
e



f



g



h





i





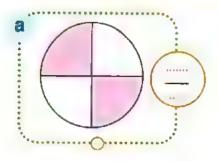


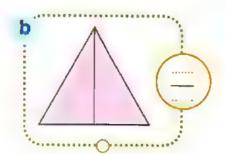


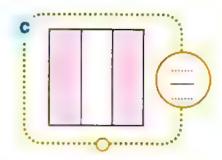




Write the fraction of colored parts, then match the fractions with its word form:

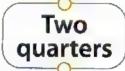




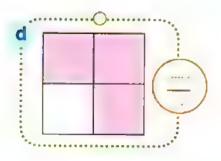


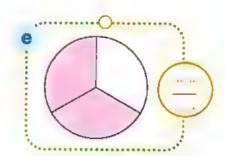
Three quarters

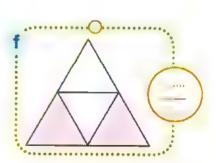














- How to write a fraction where its numerator is more than 1 as:
 - Fraction form.
 - Word form.







The relation between fractions and the whole one

One whole (1)





| 1 whole | | | | | |
|---------|--|-----|-----|-----|-----|
| 1 2 | | | 1 2 | | |
| 1 3 | | | 3 | 1 3 | |
| 1 4 | | 1 4 | 1 4 | | 1 4 |

One whole = 2 halves

One whole = 3 thirds

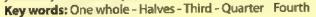
$$9 = \frac{1}{3} + \frac{1}{3} + \frac{1}{3} = 0$$

One whole = 4 quarters or 4 fourths

One half = 2 quarters or 2 fourths



Invite your child to look at the calendar and ask him/her to circle around today's date and color yesterday's date with yellow.

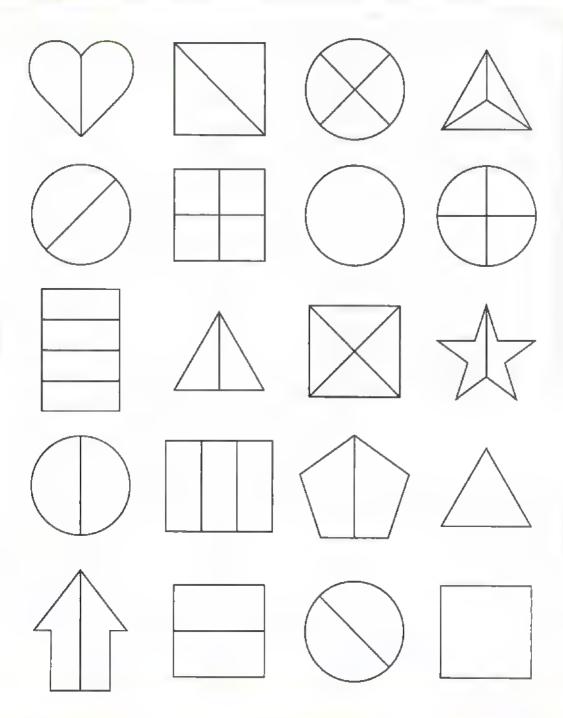






Activity 1 Look and color:

Color the shapes showing 1 whole without a separator in blue. Color the shapes split into 2 equal shares or halves in red. Color the shapes split into 3 equal shares or thirds in green and color the shapes split into 4 equal shares or fourths in brown:



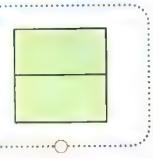
Parents' Tips:

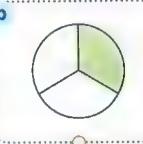
- Encourage your child to color each shape according to the fraction.
- Let your child look at the previous page, then ask him/her to tell you what happens to the size of the parts where rows are cut into more pieces.

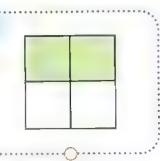




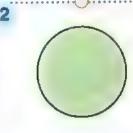


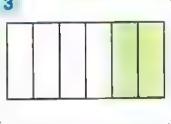












Complete each of the following:

$$a \frac{1}{2} + \frac{1}{2} = \dots$$

$$c \frac{1}{3} + \frac{1}{3} + \cdots = 1$$

b
$$\frac{1}{4} + \frac{1}{4} = \dots$$

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{2} = \dots$$

I kezirinde

 How to recognize the fractions that make the whole one.

| One whole (1) | | | | |
|---------------|-----|-----|-----|----------|
| 1/2 | | | 1 2 | |
| 1/3 | | 1/3 | | <u>1</u> |
| 1/4 | 1/4 | 14 | | 1 4 |



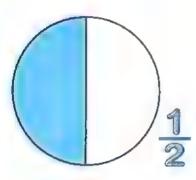


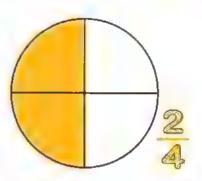


The relation between fractions of the same whole

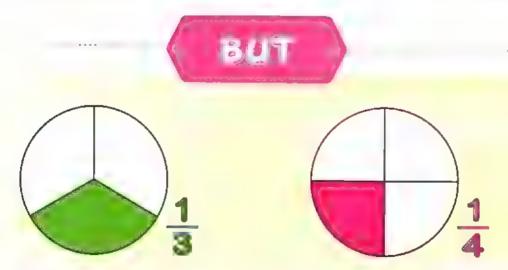
Look at the following fractions:







These two fractions are equal because they have the same shaded area of the same whole.



These two fractions are not equal because the shaded parts in each of them are different in size.



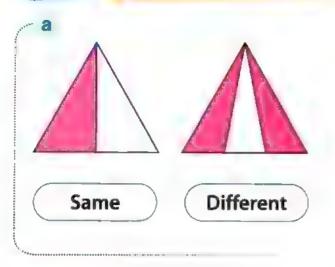


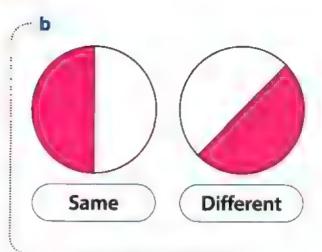
Invite your child to look at the calendar and ask him/her to draw a triangle around today's date, then
color yesterday's date in blue.

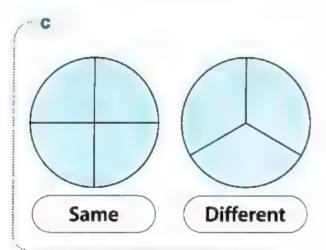
Key words: Same - Different - Equal - Fraction

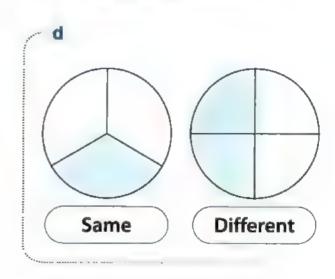


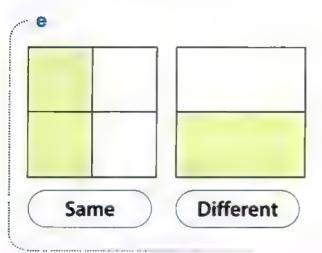
Activity Color the correct word if the two fractions are the same or different:

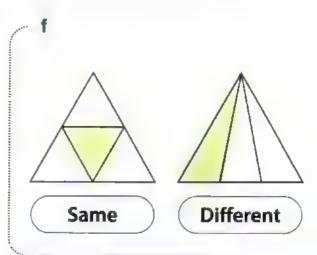














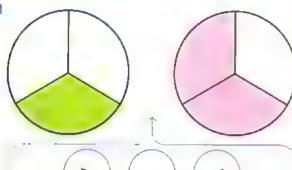
Parents' Tips:

• Let your child look carefully at each point and identity if the two fractions are the same or different.

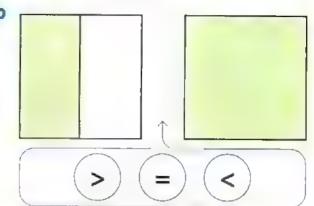


Observe the shaded parts, then color the correct sign (< , > or =):

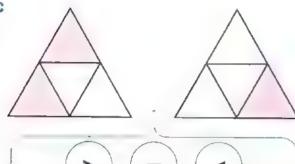
a



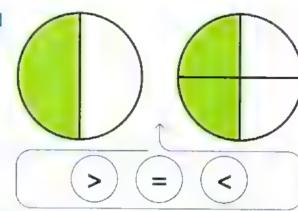
1



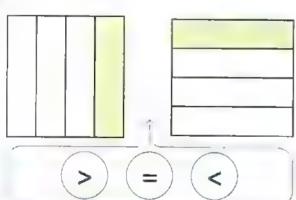
Ç



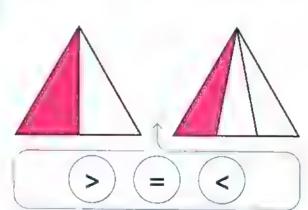
d



e



Î





- How to know if two fractions are the same or different.





Fractions of a set of objects

There is a set of 4 hens on a farm, one of them is brown and the other three are yellow.



What is the fraction of the brown hens?

- The number of brown hens is 1
- The number of all hens is
- So, the fraction of brown hens is $\frac{1}{4}$

Million of the University Physical Physics P.

- The number of yellow hens is 3
- The number of all hens is
- So, the fraction of yellow hens is $\frac{3}{4}$

What is the fraction of the brown and yellow hens?

- The number of brown and yellow hens is 4
- The number of all hens is
- So, the fraction of brown and yellow hens is $\frac{4}{4}$



Daily Practice:

- · Invite your child to look at the calendar and ask him/her to draw a circle around today's date.
- Ask your child to count the number of days he/she spent in school and draw a circle around the total number of days in the 120 chart.

Key words: Set - Fraction - All

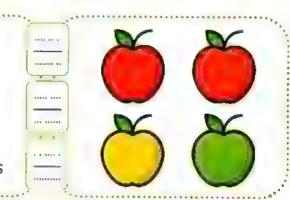




Activity Look, then answer:

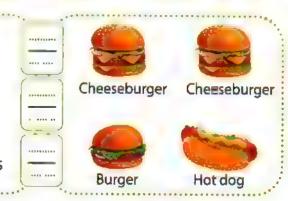
a

- The fraction that shows the red apples is
- The fraction that shows the green apples is
- The fraction that shows the yellow apples is

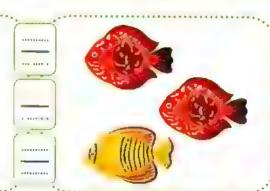


b

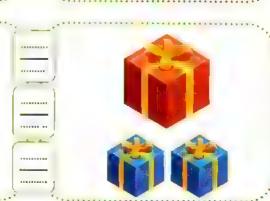
- The fraction of the burger sandwiches is
- The fraction of the hot dog sandwiches is
- The fraction of the cheeseburger sandwiches is



- The fraction of the red and yellow fish is
- The fraction of the red fish is
- The fraction of the yellow fish is



- The fraction of the big boxes is
- The fraction of the small boxes is
- The fraction of the red boxes is





- Help your child form a fraction of a part of a set.
- Let your child know that the set means a group of objects that have the same size, color, shape or uses.





Activity 2 Write the fraction of colored objects in each set:

b a d



Help your child form a fraction of a part of a set.





Activity (3) Write the fraction of girls and boys for each picture:



Parents' Tips:

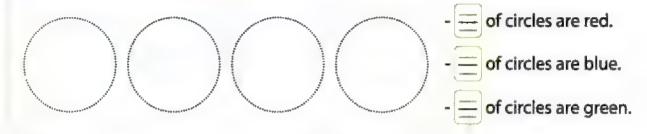
Help your child form a fraction of a part of a set.





Activity (1) Color, then write the fractions:

a Color 3 circles in red and 1 circle in green:

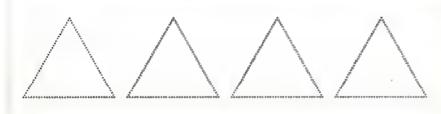


b Color 1 square in purple, 1 square in yellow and 1 square in blue:



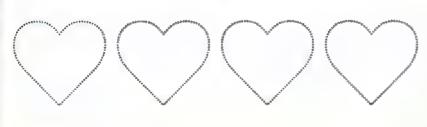
- of squares are purple.
- of squares are yellow.
- of squares are blue.

Color 1 triangle in red, 2 triangles in yellow and 1 triangle in green:

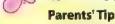


- of triangles are yellow.
- of triangles are red.
- = of triangles are green.

d Color half of hearts in orange and color 1 heart in green and 1 heart in pink:



- of hearts are orange.
- of hearts are green.
- of hearts are pink.



· Help your child solve some story problems involving fractions.





Activity 5 Color the following objects according to the given fraction:

80000

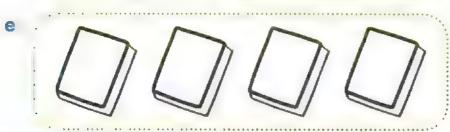
24











1 2



• How to form a fraction of a set of objects.





Fraction story problems



There are 4 slices in a pizza. Dalia ate $\frac{3}{4}$ of slices.

What is the fraction of the left slices with Dalia?



To solve this story problem collect your data about:



The number of all parts as a denominator.

All slices are 4



The number of left parts as a numerator.

Dalia ate 3 from 4 so, Dalia had 4 – 3 = 1 slice.



The fraction that represents the number of slices of pizza left with Dalia is $\frac{1}{4}$.



Daily Practice:

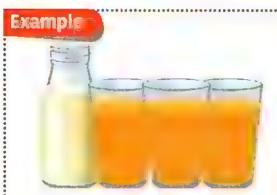
Invite your child to look at the calendar and ask him/her to draw a red circle around today's date.
 Key words: Fraction - Numerator - Denominator





Activity

Read, think, then solve:



It was a hot day and the children wanted a drink. Three children wanted orange juice and one child wanted milk.

What is the fraction of children who wanted milk?



The classroom needs 4 more pencils.

Amr brought 1, and Ahmed brought 1.

What is the fraction of pencils

didn't the children bring?





If there are 3 orange slices on a plate and Wael ate 2 of them.

What is the fraction of left slices?



Sara has four toy cars. She gave her sister $\frac{1}{4}$ of them.

What is the fraction of left cars?





Encourage your child to solve some story problems involving fractions.





Activity 2 Read, think, then solve:

a

Salma cut an apple into four equal pieces. She gave two pieces to her sister and one piece to her brother.

What's the fraction of the left pieces?



If Ahmed has 2 sons and one daughter.

What's the fraction of his sons?



Rana made 2 cupcakes, she gave her sister one of them.

What's the fraction of the left cupcakes?



Adam had 4 sweets, he gave his sister 3 of them,

What's the fraction of the left sweets?





How to solve story problems involving fractions.











Identify the equal parts and unequal parts.

Solve story problems involving fractions.

Divide shapes into equal parts.

Identify and write fractional parts of a set.

Form a fraction

Numerator .



Fraction bar -



Denominator -

Know the relation between the whole one and the fractions:

- Half
- Third
- quarter or fourth and the relation between fractions and each other.

Read and write the fractions with 1 as a numerator like:

- Half
- Third
- Fourth
- Quarter

Read and write the fractions with a numerator more than 1 like:

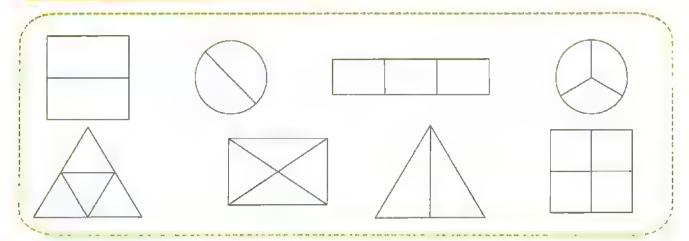
- $\bullet \frac{2}{4}$ two fourths or two quarters
- 3 three fourths or three quarters
- $\bullet \frac{2}{3}$ two thirds



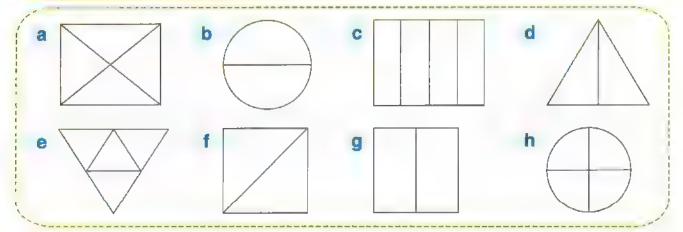
General Activities On Chapter



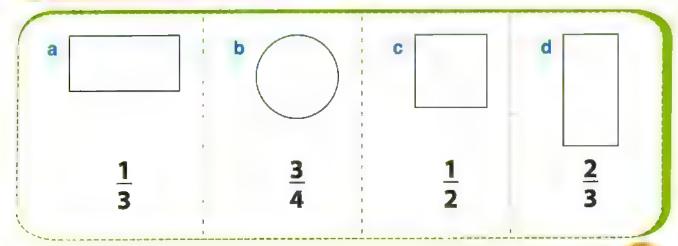




Color half of each of the following shapes:



Divide each shape, then color it according to the given fraction.

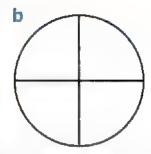


Color according to the given fraction:

a



One fourth



One whole

Ç

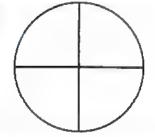


1 3

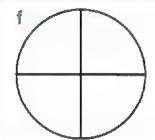
d

Two halves

е



2

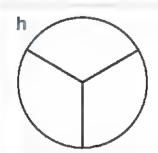


4

g

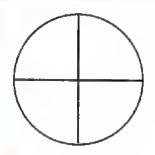


3

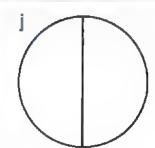


3

î



Four quarters



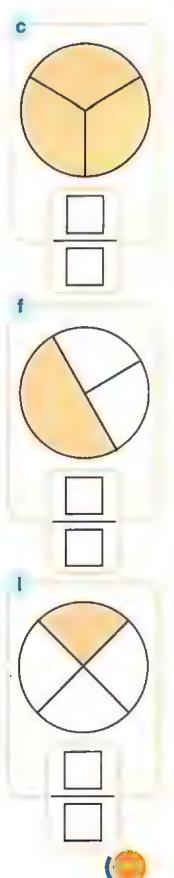
1 2



Write the fraction which represents the shaded part(s):

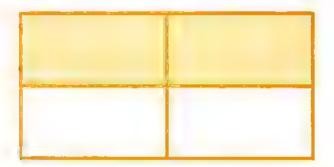
d g





Solve the following fractions word problems:

a A figure is divided into 4 equal parts. Ali shaded 2 parts of it. What fraction of the figure is not shaded?





b There are 4 flowers in the basket. 3 flowers are red and 1 flower is yellow. What fraction of flowers is yellow?





C Mom gave me 3 cupcakes to eat. I gave 2 cupcakes to my younger brother.

What fraction of cupcakes do I have now?

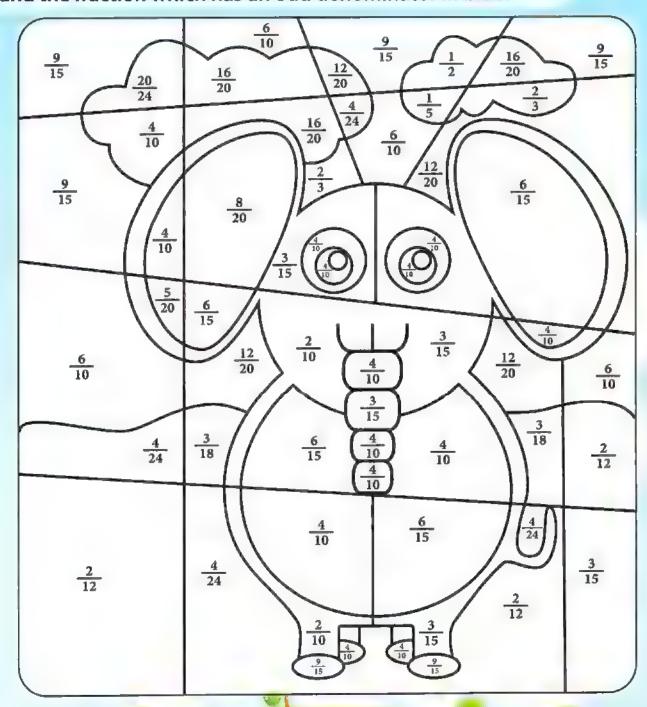








 Color the fraction which has an even denominator in red and the fraction which has an odd denominator in blue.







Lessons (111&112): Bar graph and pictograph

Outcomes

- Represent data in bar graph with a scale of (2) or (5) or (10).
- Represent data in pictographs with a scale of (2) or (5) or (10).
- Explain the importance of using appropriate scale when creating bar graphs.

Lesson (113): Forming a bar graph and a pictograph

- Form a bar graph and a pictograph.
- Choose an appropriate scale based on the data being graphed.
- Organize data on a bar graph and solve problems using these data.
- Organize data on a pictograph and solve problems using these data.

Lessons (114&115): Comparing between two arrays

Outcomes

- Identify real world arrays.
- Write repeated addition sentences for arrays.
- Calculate the total number of objects in an array.
- Create arrays with given rows & columns.
- Write repeated addition sentences to express the total number of objects in an array.
- Compare between two arrays.

Lesson (116): Adding using mental math strategies **Outcomes**

 Apply variety of strategies to add 1, 2 and 3-digit numbers. Lesson (117): Addition story problems

Outcomes

- Write story problems for addition.
- Solve addition story problems.

Lesson (118): Subtracting using mental math strategies Outcomes

Apply variety of strategies to subtract 1, 2, 3-digit numbers.

Lesson (119): Subtraction story problems

Outcomes

- Write story problem for subtraction.
- Solve subtraction story problems.

Lesson (120): Math games using addition and subtraction strategies

Outcomes

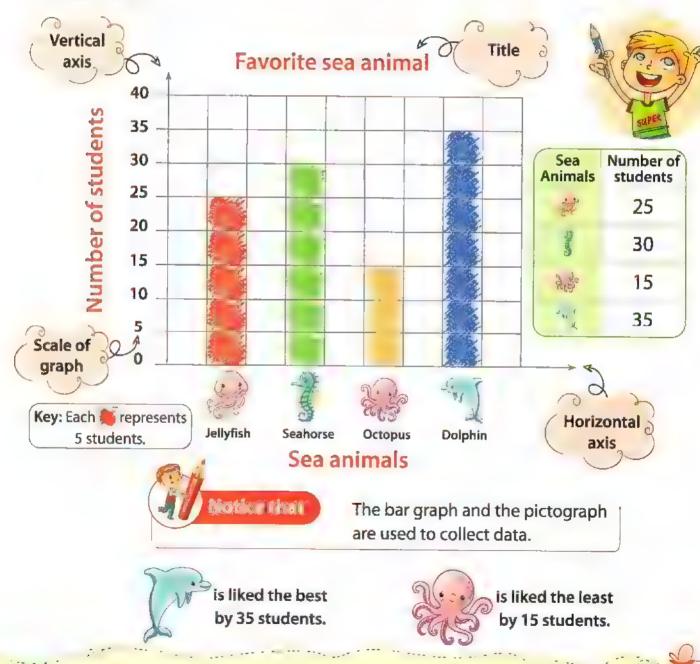
- Play a math game for solving addition & subtraction problems.
- Reflect on their learning in primary 2 mathematics.
- Describe major skills and concepts learned in primary 2.

In this chapter,
we are going to review
what we have studied during
this term.



Bar graph and pictograph

- Yesterday, I went with my class on a trip. We went to one of the world's largest indoor aquariums, we have seen a lot of sea animals during our trip and we found that: 25 students liked , 30 students liked , 15 students liked and 35 students liked.
- · Today, our teacher asked us to represent these data in a bar graph.
- We can use any scale for the bar graph, so we choose a scale of 5 to represent these data.





- Encourage your child to look at the calendar and ask him/her to draw a circle around today's date.
- Ask your child to write the name of the current day and the name of the day before and the day after.

Key words: Bar graph - Hor zontal - Vertical - Title - Scale of 5 - Best - Least



 We can also use a pictograph to represent our data about our favorite sea animals (Pictograph uses pictures to represent the data):



Key: Each sea animal represents 5 students.

How many students liked



130

How many students liked



45

How many more students liked



20

How many students liked



70

• What is the most popular sea animal on this graph?

Dolphin



Help your child collect data from pictograph.
 Key words: Key - Pictograph.





Complete the table, then answer the question:



a How many people liked



- c How many people liked and ?....?
- d How many more people liked than ??
- e What is the least favorite cake?
- f What is the most favorite cake?
- g This bar graph represented by scale of





Help your child solve questions on bar graphs.







Use the data in the following pictograph and color to complete the bar graph of the soccer goals:

| The soccer goals | | | | | | |
|------------------|------------|--|--|--|--|--|
| Red team | | | | | | |
| Blue team | | | | | | |
| Pink team | 333 | | | | | |
| Gray team | 999999 | | | | | |

Key: Each represents 2 goals / Each represents 1 goal



- a Which team has the most soccer goals?
- b How many goals did the pink team and blue team score?
- c How many more goals did the gray team score than the blue team?
- d Which team has the least number of soccer goals?



Parents' Tips:

• Help your child use a pictograph to form a bar graph.



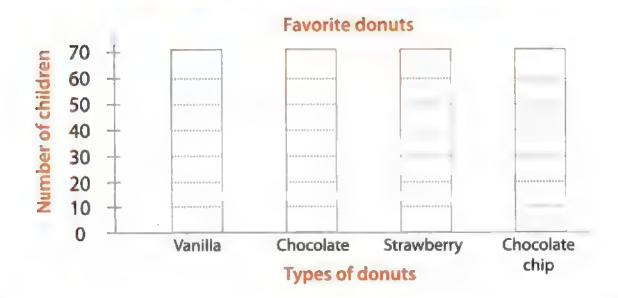




Use the data in the pictograph to represent it by the bar graph, then answer the questions:



Key: Each represents 10 children / each represents 5 children.



- a How many students like chocolate donuts?
- b How many students like vanilla and strawberry donuts?
- c How many more students like chocolate chip donuts than vanilla?



Parents' Tips:

• Encourage your child to use a pictograph to form a bar graph.



Sara's father has a food shop, he asked Sara to collect information about how many hot dog sandwiches sold during the week. Help Sara represent these data on a pictograph, then answer the questions.



- icy.
- a How many hot dogs sandwiches were sold on Wednesday?
- b Which day has the most number of sold hot dog sandwiches?
- c Which day has the least number of sold hot dog sandwiches?



How to use scale of 5 to represent data on:

- (a) a bar graph.
- **b** a pictograph.



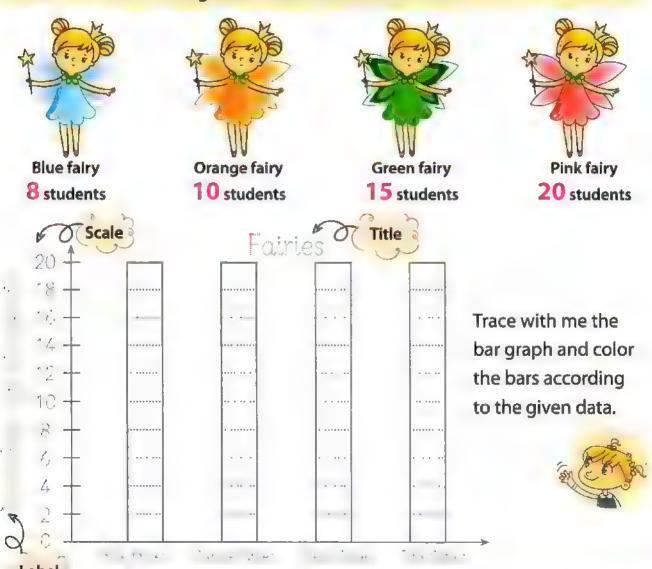


Forming a bar graph and a pictograph



To form a bar graph, follow the steps:

- 1 Draw horizontal and vertical axes.
- (2) Choose the suitable scale (1, 2, 5 or 10).
- 3 Write a title.
- 4 Label each axis.
- (5) Color each bar according to its data.
- Let's form a bar graph for our art teacher to record data about the number of students who drew magical fairies with different colors:





Invite your child to use his/her calendar to draw a circle around today's date.
 Key words: Horizontal Vertical Axis Axes - Scale - Label - Title - Data



To form a pictograph, follow the steps:

- 1 Write a title.
- 2 Choose a suitable key.
- 3 Use the key to represent the data by drawing.

Trace in the pictograph with me.





Blue fairy

8 students



Orange fairy

10 students



Green fairy

15 students



Pink fairy

20 students

Magical fairies





Blue fairy





Orange fairy





Green fairy





Pink fairy

介分位公公公公公公公

Key: Each Trepresents 2 students / each Trepresents 1 student



Parents' Tips

Help your child form a pictograph from the given data.







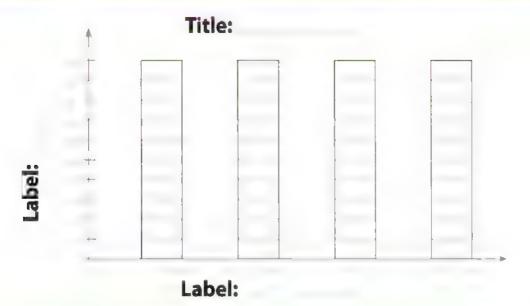
Draw a bar graph to record the data which Ahmed collected about the favorite pet for each of his friends in school, then answer:



Steps:

- 1 Write title
- 2 Label the axes
- 3 Make a scale
- 4 Graph the data





- a Which pet was the most favorite?
- b Which pet was the least favorite?
- How many friends liked fish and cat?







· Help your child form a bar graph from the given data.



Parents' Tips:

Encourage your child to form a pictograph from a given data.

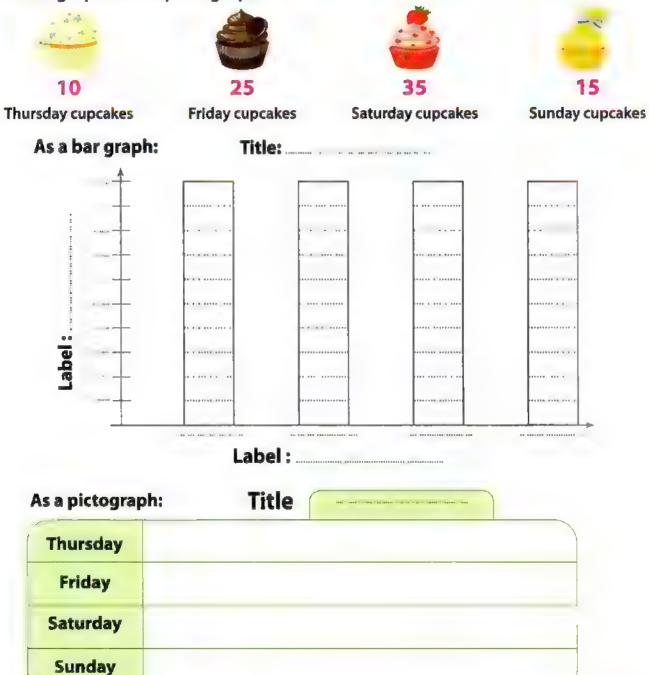
d How many gifts did Sara, her brother and her father have?





Read, think, then solve:

 Karim's uncle has a bakery shop he asked him to collect the data about the cupcakes he sold during this week, and represent these data on both a bar graph and a pictograph:



Key:

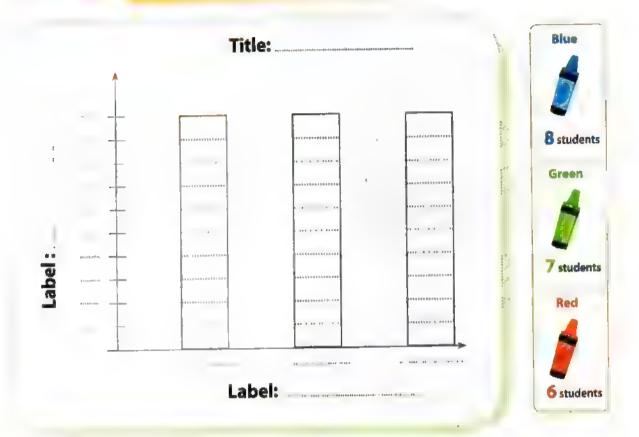




• Ensure that your child can form both a bar graph and a pictograph from the given data.



Our art teacher asked my friends and me to create a bar graph and a pictograph about our favorite color:



| As a pictograph: | Title | |
|------------------|-------|----|
| Red | | |
| Blue | | |
| Green | | _/ |



How to form a bar graph and a pictograph.







COMPLETE OF STATION AND STATESTY

Column













Column







Rows

Columns

Array is 2 by 3.

Array is 4 by 2.

Addition sentences:

Add the 4 rows:

2 + 2 + 2 + 2 = 8

Add the 2 columns

4 + 4 = 8

Addition sentences:

Add the 2 rows:

3 + 3 = 6

Add the 3 columns

2 + 2 + 2 = 6











•The Range array has a smaller sum than the array.







 Ask your child to count the numbers of days he/she spent in school and draw a circle around the total number of days on the 120 chart.

Key words: Array - Compare - Row - Sum - Column - Greater than - Smaller than



Complete, then color the correct answer:





Array is called 2 by 4
Addition sentences:

$$4 + 4 = 8$$

$$2+2+2+2=8$$



Array is by Addition sentences:

The number of objects of the first array is than the number of the objects of the second array. (greater or smaller)



Array is by Addition sentences:



Array is by
Addition sentences:

The number of objects of the first array is than the number of objects of the second array. (greater or smaller)



Parents' Tips:







Complete, then color the repeated addition sentence that represents the sum of each array:



Array is 4 by 4

$$5 + 4 = 9$$

$$5+5+5+5=20$$

$$4+4+4+4=16$$







Array is by

$$3+3+3+3=12$$

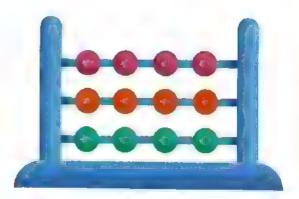


$$5 + 3 = 8$$



$$3+3+3+3+3=15$$





Array is by ...

$$4 + 4 + 4 = 12$$



$$3 + 3 + 3 = 9$$

$$4 + 3 = 7$$





Array is by

$$5 + 2 = 7$$



$$5 + 5 = 10$$



$$2 + 5 = 7$$

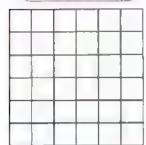




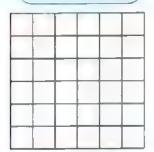


Color to form the array, then join:





$$=3+3+3+3+3$$



$$0 = 6 + 6 + 6$$



$$=5+5+5+5$$

= 20



$$= 3 + 3$$

$$\circ = 2 + 2 + 2$$







Compare the number of objects of arrays by coloring the correct sign:



4 by

>

_

.

by

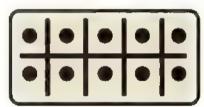
3



by

>

<



2

by



- How to draw an array.
- How to read and write the name of an array as 2 rows by 3 columns.
- How to compare between two arrays.



2 by 3



Column





Adding using mental math strategies

In this lesson we are going to solve addition problems using different ways

On number line count forward 16 + 3 = 19



Fact family

$$16 + 3 = 19$$

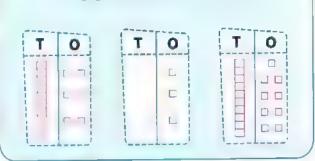
$$3 + 16 = 19$$

$$19 - 16 = 3$$

$$19 - 3 = 16$$

On place value mat

$$16 + 3 = 19$$



Decomposing into tens & ones

$$\frac{16}{10^{6}} + \frac{3}{6}$$

$$6 + 3 = 9$$

$$10 + 9 = 19$$

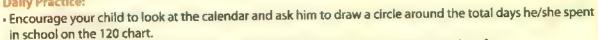
on the 120 chart



Count forward

$$16 + 3 = 19$$





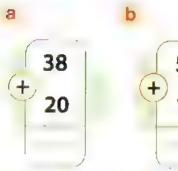
Ask your child to write the name of today and the name of the day before and the day after.
 Key words: Count forward Decomposing - Tens - Ones - Fact family - Place value Number line - 120 chart

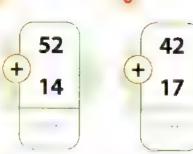






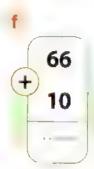
Solve the following problems using 100 chart:











| | _ | | | | | 8 | | | | | |
|---|----|----|----|----|----|----|----|------|----|-----|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | |
| | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | |
| | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | |
| l | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | |
| | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | |
| ı | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | |
| | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | |
| | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | |
| ١ | | | 70 | | | - | | Hyb. | | | |



Solve the following problems using the place value mat:

Example



| Tens | Ones |
|------|------|
| | |



| C===================================== | | | | | | |
|--|------|------|--|--|--|--|
| Hundreds | Tens | Ones | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |



| Tens | Ones | | |
|------|------|--|--|
| | | | |
| | į | | |
| | l | | |



| Hundreds | Tens | Ones | | | |
|----------|------|------|--|--|--|
| | | | | | |
| | | | | | |
| i | | | | | |



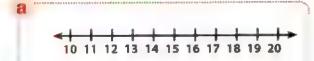


Help your child solve addition problems using different strategies.



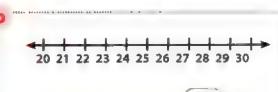
Example

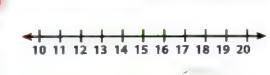
Activity 4 Use the number line to solve the following problems:





$$55 + 4 =$$





Parents' Tips



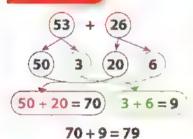
Solve the following problems by decomposing:

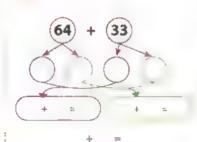
Example

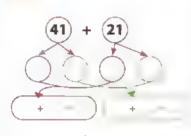




Example







Solve the following problems using fact family numbers:

Example



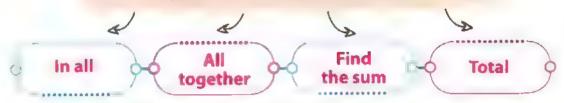
How to solve addition problems using different strategies.





Addition story problems

We can solve addition story problems when we see these words:





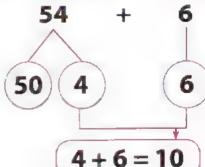
Mariam made 54 vanilla cupcakes and 6 chocolate cupcakes,
Find the sum of cupcakes she made.

54 + 6 = 60 cupcakes

To solve the previous problem, you can use any addition mental math ways:







50 + 10 = 60

Daily Practice:

 Encourage your child to look at the calendar and ask him/her to draw a circle around the date of today and color the date of yesterday in blue.

Key words: Total - Sum - All together



Decomposing strategy



Read, think and solve:

Ahmed went on a picnic, he collected 29 red apples and 19 green apples in the picnic bag. How many apples did he collect in all?



The total number of apples =

A story is split into 2 chapters. Chapter one has 94 pages and chapter two has 116 pages.



How many pages are there in the story?

The number of pages in the story = _____ pages.

There are 16 girls and 35 boys in a class. How many students are there in this class?



The number of students in the class = ...

students.

d If Rania had 77 toys while Aya had 12 toys, how many toys do they have in all?



The number of toys =



Help your child solve addition story problems.



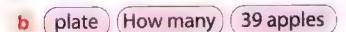
Activity 2 Complete the story problem using the given words, then answer:

How many (in all) 37 cakes

Yassin's mother made for her son birthday party and his aunt made 25 cakes also.



The total number of cakes = cakes.



There are on an apple tree and 10 apples on the . _____.

apples are there in all?

The number of apples =

16 flowers her sister in all

Salma planted 46 flowers and planted

How many flowers has Salma and her sister planted?

> The planted flowers = ... flowers.



How to solve addition story problems.







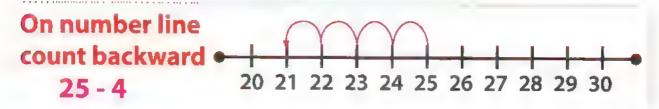






Subtracting using mental math strategies

In this lesson we are going to solve subtraction problems using different ways.



Fact family

$$21 + 4 = 25$$

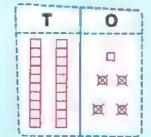
$$4 + 21 = 25$$

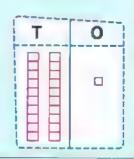
$$25 - 4 = 21$$

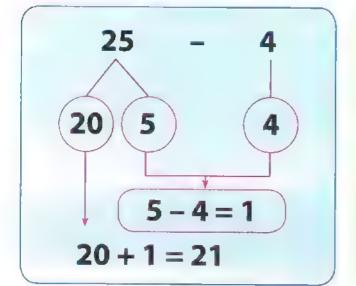
$$25 - 21 = 4$$

On place value mat

$$25 - 4 = 21$$







on the 120 chart

| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----|----|----|----|----|----|----|----|----|----|
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |

Count backward

$$25 - 4 = 21$$



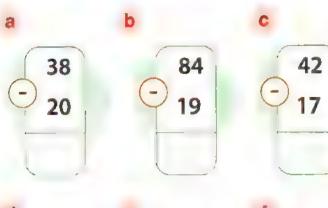


Encourage your child to look at the calendar and ask him/her to draw a circle around the date of today.

Key words: Place - Value mat - Fact family Decomposing - 120 chart - Count backward - Number line



Activity Solve the following problems using the 100 chart:



| 19 | |
|------------|------------|
| , | |
| 78 - 64 | 66 - 10 |

| 1 | | | | | | | _ | _ | _ |
|-----|----|--------|----|----|----|----|----|----|-----|
| ١.١ | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| | - | - Alle | | | | | | | |

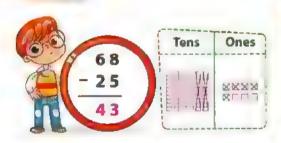
Activity 2

99

40

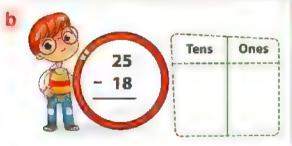
Solve the following problems using the place value mat:

Example



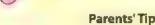


| Hundred | Tens | Ones |
|---------|------|------|
| | | |
| | | , |
| | | |





| Hundreds | Tens | Ones |
|----------|------|------|
| | | |
| | | |



Help your child solve subtraction problems using different strategies.





Solve following problems:

Example

287 - 143

138

a

562 238 b

324 - 179 C

781 - 194 d

590

- 289

0

920 132 f

684 - 530 g

950 - 679

521 - 61 1

249

- 134

703 - 147 k

822 - 385 1

609 389 m

700

343

ı

150 - 99

Activity



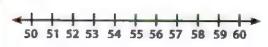
Use the number line to solve the following problems:

10 11 12 13 14 15 16 17 18 19 20

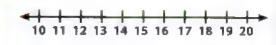




Ç



d



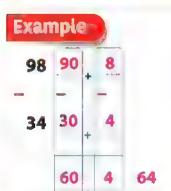
$$17 - 3 =$$

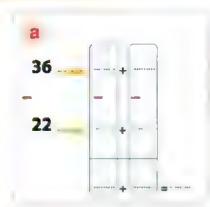


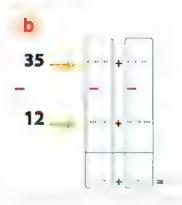




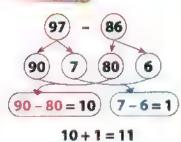
Solve the following problems by decomposing:

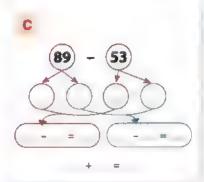


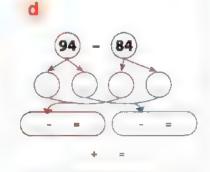










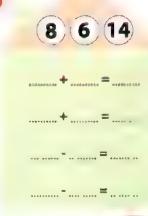


(Additity 6

Solve the following problems using fact family numbers:

Example







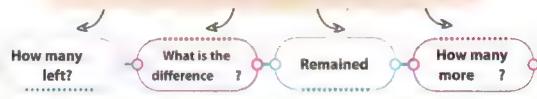
How to solve subtraction problems using different strategies.





Subtraction story problems

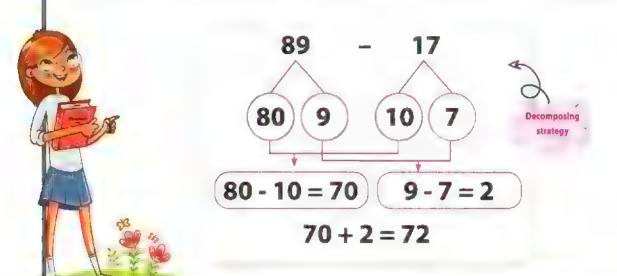
We can solve subtraction story problems when we see these words:



Laila had 89 crackers, she gave her brother Karim
17 crackers, how many crackers are left with her?
89 - 17 = 72 crackers

To solve the previous problem, you can use any subtraction mental math ways:







Daily Practice:

 Encourage your child to look at the calendar and ask him/her to draw a circle around the date of today and color the date of yesterday with any primary color.

Key words: How many more - Left - Difference Remained

Read, think, then solve:

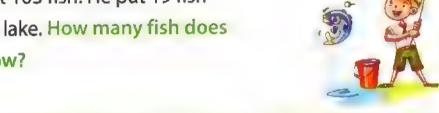
Amar's football team scored 28 goals and Marwan's football team scored 19 goals, find the difference between the number of goals of the two teams.



goals.

The difference =

b Alaa caught 103 fish. He put 19 fish back in the lake. How many fish does he have now?



fish.

Alaa has =

Sahar read 90 stories and Zainab reads 82 stories. How many more stories did Sahar read?



stories.

The number of stories = .

d Salma planted 107 trees, and her friend planted 65 trees. How many more trees did Salma plant than her friend?



The number of trees =



Help your child solve different subtraction story problems.







Complete the story problems using the given words, then answer:

remained

L.E. 160

How much

store, she bought a skirt for L.E. 58

....money with her?

The remained money = L.E.



529 birds

more

214 monkeys

In the Zoo, there are and

How many birds than monkeys

are there?

The number of birds = ...

birds

left

29 birds

How many

There are 47 birds on a tree. A loud noise scares away.

birds are on the tree?

The number of birds =

birds.



How to solve subtraction story problems.





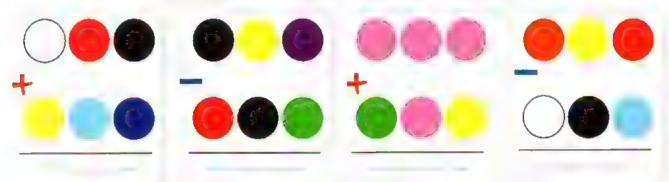
120

Math games using addition and subtraction strategies

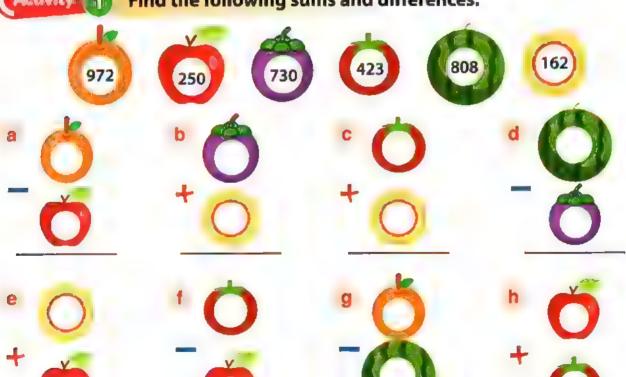
This lesson is to play math games using addition and subtraction operation like the following game.



Using the following number cards write the digits according to the colored circles then, find the result:



Activity Find the following sums and differences:







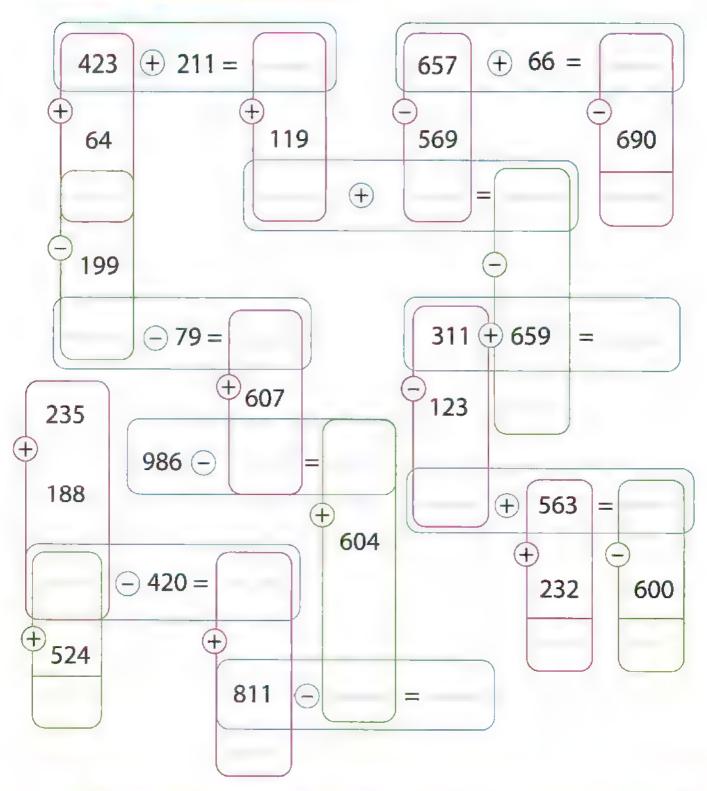
[•] Encourage your child to look at the calendar and ask him/her to color the date of today in red. **Key words:** Addition - Subtraction







Play the following math game by solving addition and subtraction problems using any strategy:

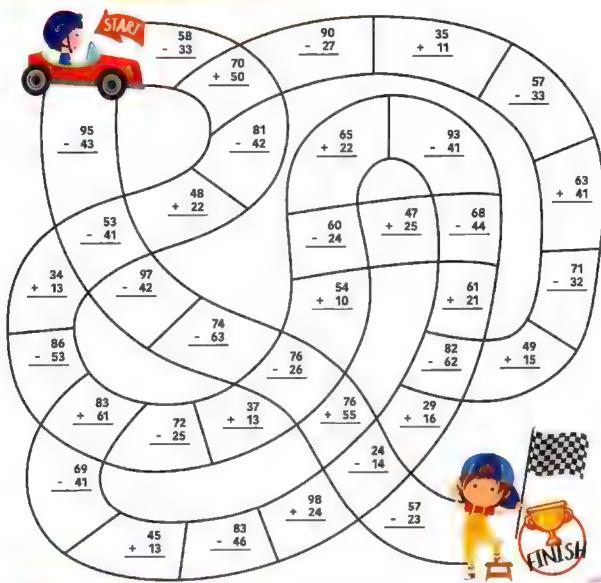








Help Omar finish the race quickly by solving the following problems, then color the odd result in red and the even result in yellow:





- How to use different mental math strategies to add and subtract.
- How to play some math games using addition and subtraction operations.





Summary



Form a bar graph and a pictograph.

Play math games using addition and subtraction operations.

Create arrays with given rows and columns.

Solve addition and subtraction story problems.

Calculate the total number of objects in an array.

Add and subtract two numbers using different strategies.

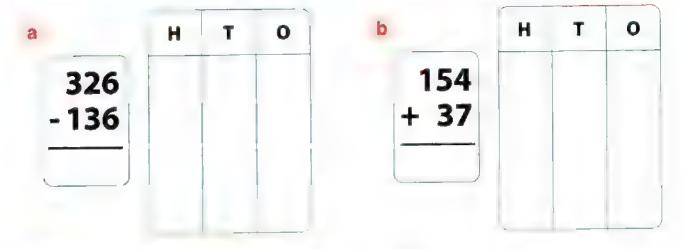
Compare between the number of objects of two arrays.



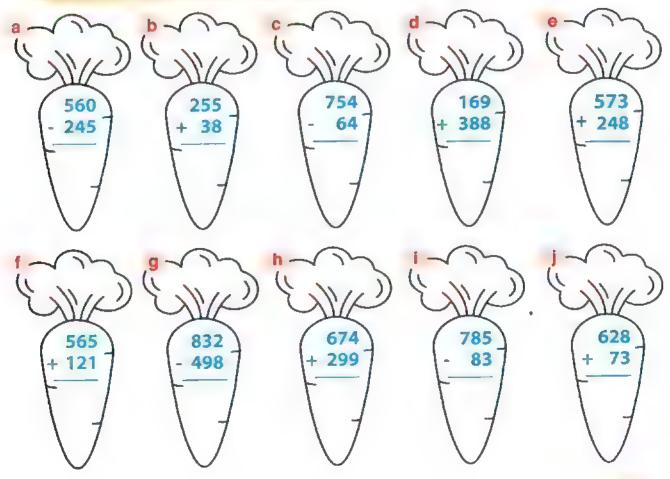
General Activities on Chapter 📵



Solve the following problems using the place value mat:



Solve, then color the carrot which has the greatest answer in orange 2 and the carrot which has the smallest answer in yellow:





Solve the following problems using decomposing strategy:





Solve the following problems using fact family numbers:

Read, think, then solve:

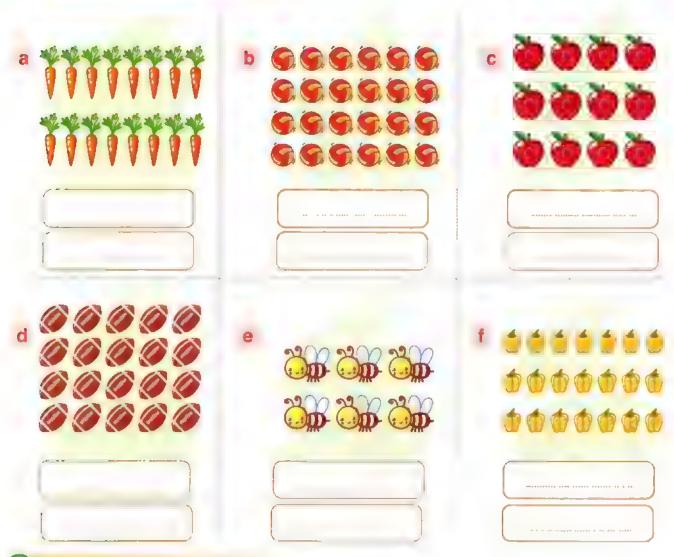
a Amal bought a scooter for L.E. 183 and a teddy bear for L.E. 29, find the total money she paid.

What she paid = L.E.
$$+$$
 L.E. $=$ L.E.

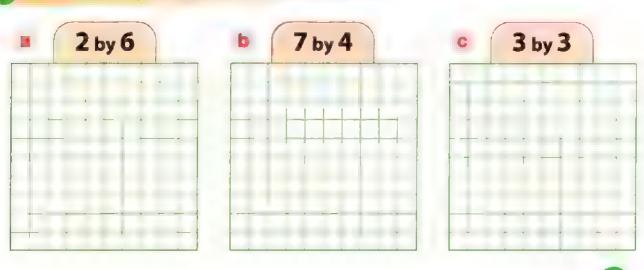
b Samir bought a new book of 323 pages, he read 108 pages of them, how many more pages does he need to read to finish the book?

The number of pages he has to read = - pages

Write the name and one of its addition sentence of the following arrays:

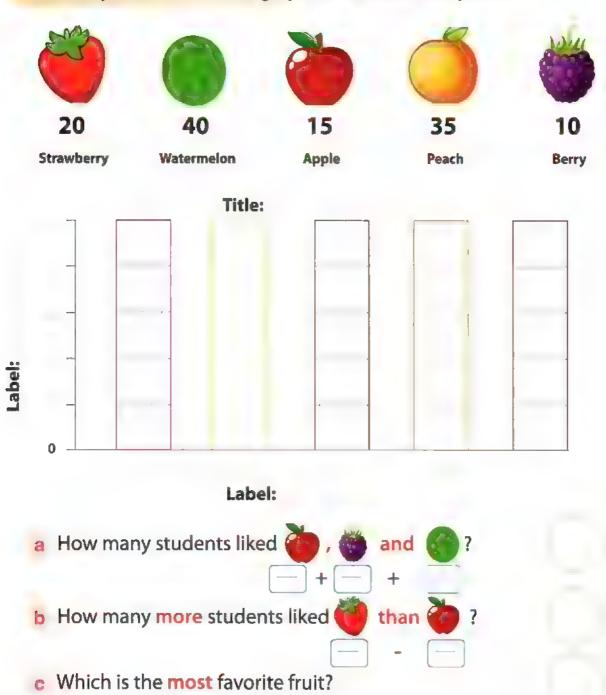


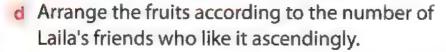
Draw an array according to the given name:





Laila's teacher asked her and her friends in school to collect information about their favorite type of fruits. Help them collect data and represent what they collected on a bar graph, then answer the questions.



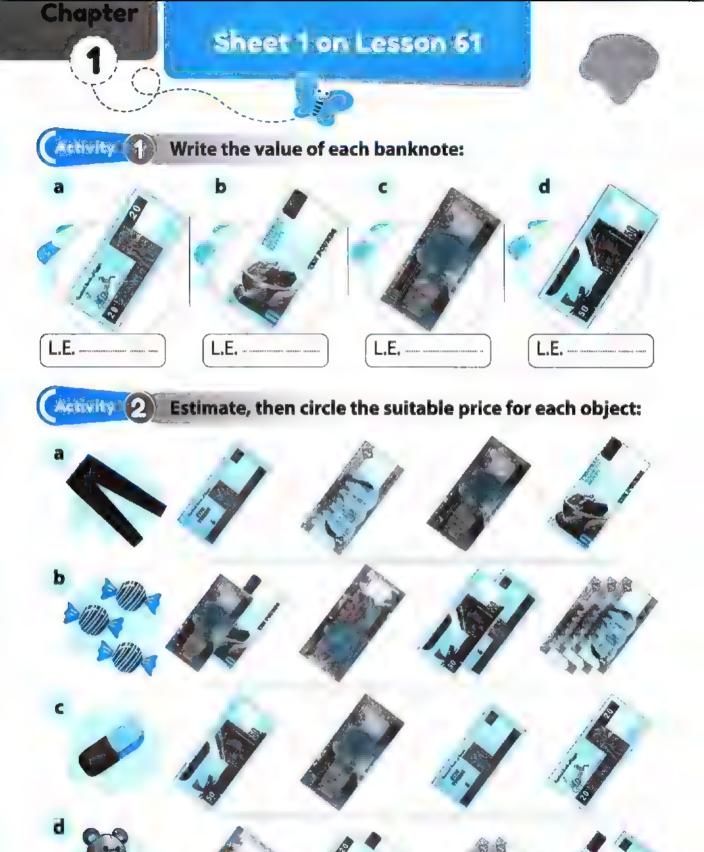




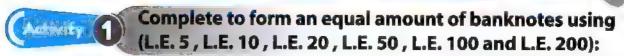
Ongoing Assessment

Part1



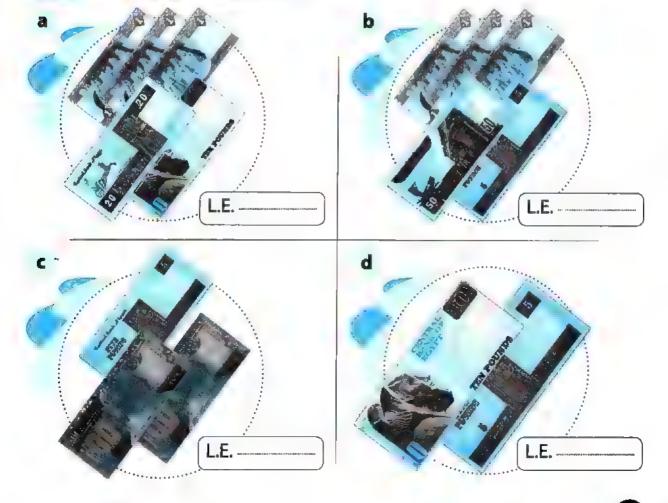


Sheet 2 on Lesson 62



$$\begin{array}{c} \text{L.E.} \\ 100 \end{array} + \begin{array}{c} \text{L.E.} \\ 50 \end{array} + \begin{array}{c} \text{L.E.} \\ 20 \end{array} + \begin{array}{c} \text{L.E.} \\ 10 \end{array}$$

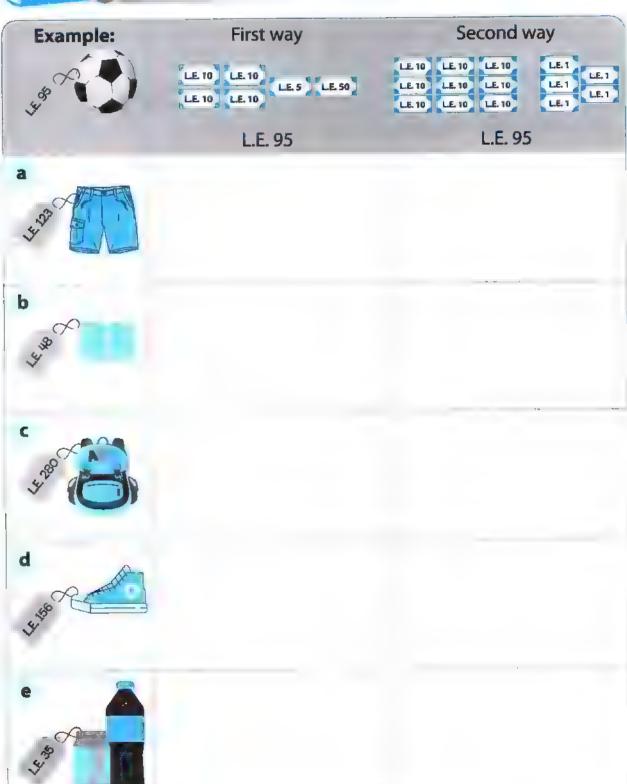
Write the total amount:



Single Sien Lesson 63



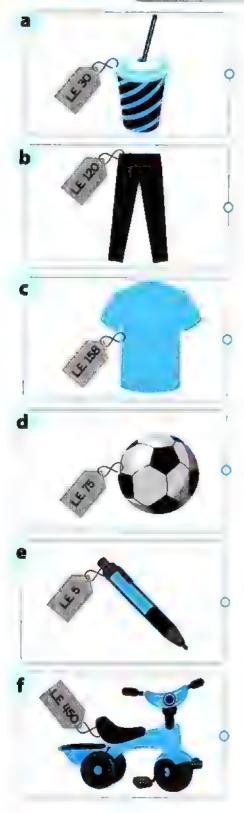
Show the price of each object in 2 different ways:

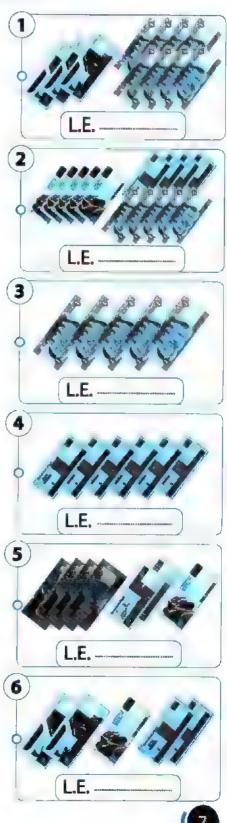


Sheet 4 on Lesson 64



Use your 120-chart to write the total amount of money, then match each object to its price:





Sheet 5 on Lesson 65



his/l

Find the child that can buy the objects according to his/her budget, then write the money left in his/her budget: (Each child will choose only one object).





Who can buy 2 pairs of shoes?

can buy 2 pairs of shoes.

is the amount of money left in his/her budget.



Who can buy 2 teddy bears?

can buy 2 teddy bears.

_____ is the amount of money left in his/her budget.



Who can buy 1 guitar?

can buy 1 guitar.

is the amount of money left in his/her budget.



Who can buy 1 watch?

can buy 1 watch.

is the amount of money left in his/her budget.

Sheet 6 on Lesson 66

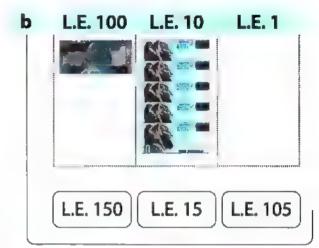
| | Activity 1 Read, think then solve: |
|---|--|
| a | Dalia had L.E. 25 in her wallet, her father gave her L.E. 30 more. |
| | How much money in total does she have in her wallet? |
| ь | Mohamed had L.E. 100, he bought shoes for L.E. 55. How much money left with him? |
| | Read, then color the correct answer: |
| a | How much money would it cost Ali to buy a shirt for L.E. 75 and a hat for L.E. 12? |
| | L.E. 87 L.E. 63 L.E. 90 |
| b | How much money left with Sara if she had L.E. 98 and she bought a dress for L.E. 60? |
| | L.E. 100 L.E. 38 L.E. 80 |

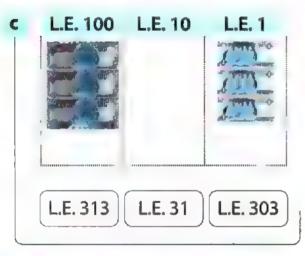
Sheet 7 on Lesson 67

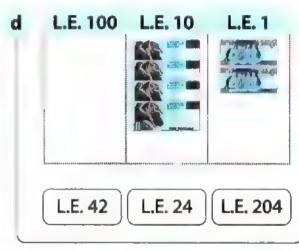


Color the correct amounts of money that represent each place value/money mat:

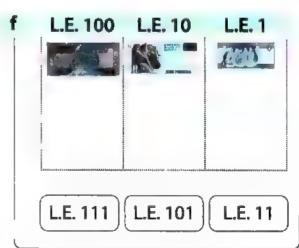












Sheet 8 on Lesson 68





Solve the following problems using the place value / money mat:

| | - | _ | | | |
|---|--|---|--|---|--|
| a | L.E. 315 | + | L.E. 45 | = | N-LIP OR SALES OF THE SALES OF |
| L.E. 10 | 00 L.E. 10 L.E. 1 | | L.E. 100 L.E. 10 L.E. 1 | | L.E. 100 L.E. 10 L.E. 1 |
| 200000000000000000000000000000000000000 | pattern. Hedd-tran | ************************************** | Specialistan i same desemble (). Stranger composition () the compositi | = | Philippers |
| b | L.E. 183 | + | L.E. 25 | = | -amounts to mindle or devices - references homes - |
| L.E. 10 | 00 L.E. 10 L.E. 1 | * | L.E. 100 L.E. 10 L.E. 1 | | L.E. 100 L.E. 10 L.E. 1 |
| doni koja v terre sa selaki kilosopa ki v | esidikija muu aaroja koloogea karantee karantee karantee karantee karantee karantee karantee karantee karantee | - Independent - | | = | AND THE PROPERTY OF THE PROPER |
| C | L.E. 763 | + | L.E. 89 | = | To the state of th |
| L.E. 10 | 00 L.E. 10 L.E. 1 | | L.E. 100 L.E. 10 L.E. 1 | | L.E. 100 L.E. 10 L.E. 1 |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | + | ************************************** | = | ###################################### |
| d | L.E. 34 | + | L.E. 199 | = | |

| L.E. 100 L.E. 10 L.E. 1 | | L.E. 100 L.E. 10 L.E. 1 | L.E. 100 L.E. 10 L.E. 1 |
|-------------------------|---|-------------------------|---|
| 4 | | | |
| 70 C | | | |
| 4 | + | = | |
| | | | *************************************** |

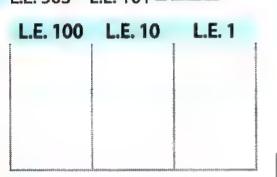


Sheet 9 on Lesson 69

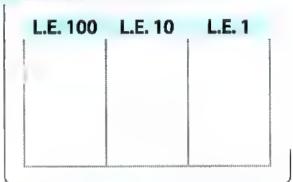
(Activity 1

Solve the following problems using the place value / money mat:

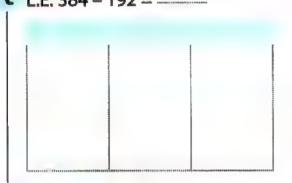
a L.E. 503 – L.E. 101 =



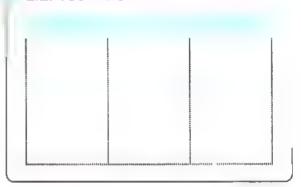
b L.E. 756 – L.E. 327 =



c L.E. 384 - 192 =



d L.E. 185 – 76 =



Activity 2 Tick (/) the correct operation for each result:

L.E. 100 L.E. 10

- 305 183
- 395 163
- 305 103

L.E. 100 L.E. 10 L.E. 1

- 170 24
- 170 34

186 – 14

Sheet 10 on Lesson 70





Read, think then solve by using the place value / money mat:

a Rasha had L.E. 240. She bought perfume for L.E. 115.

How much money left with her?

The money left with Rasha = ____ = L.E. ___

| L.E. 100 | L.E. 10 | L.E. 1 |
|--|---------|--------|
| ************************************** | | |
| *** | | |
| | | |
| | | |
| | | |

b Zein bought a shirt for L.E. 180 and trousers for L.E. 309.

How much money he will pay?

The money Zein will pay = ____ + ___ = L.E.

| L.E. 100 | L.E. 10 | L.E. 1 |
|----------|---------|--------|
| 10 mm | | |
| | | |
| | | |
| | | |
| | | |
| *** | | |
| | | |

c Laila had L.E. 158. She bought a skirt for L.E. 88.

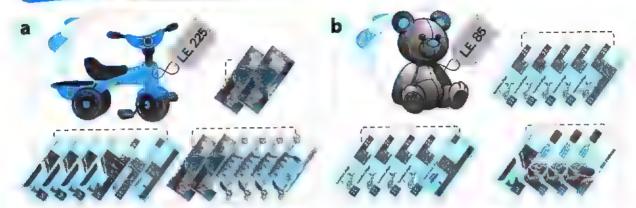
How much money left with Laila?

The money left with Laila = ____ = L.E. ____



Sheet 11 on Chapter 1

Circle the banknotes that can be used to buy each object:



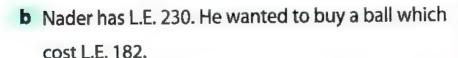
Tick if the budget of the child is enough to buy the object and 🚳 if the budget is not enough:



Read, think, then solve:

a Ola bought a doll for L.E. 75 and a dress for L.E. 158. How much money did she pay?

What she paid = ______ + ____ = ____ L.E.



How much money left with him?

The money left = ____ = L.E.





| a L.E. 503 | b L.E. 155 | 0 II II | c L.E. 630 | | |
|--|--|---|---|---|--|
| .E. 100 L.E. 1 | L.E. 100 L.E | E. 10 L.E. 1 | L.E. 100 L.E. 10 L.E. | | |
| (5) Solve ti | ne following pr | oblem using | | *************************************** | |
| L.E. 305 + L.E. 219 = | | | - L.E. 563 = | | |
| L.E. 100 L.E. 10 | L.E. 1 | L.E. 100 | L.E. 10 | L.E. 1 | |
| 1.000 Park 1970 - 100 Park 197 | ************************************** | | | | |
| | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | *************************************** | *************************************** | | |
| Activity 6 Read, t | hink, then solv | e: | | | |
| Selim had L.E. 500. H | | | 210. | | |
| | | | | | |

Assess Your Progress

- (1) I can compare Egyptian banknotes.
- (2) I can combine L.E.1, 5, 10, 20, 50 and 100 to create a given total.
- (3) I can decompose and combine banknotes using diffrerent ways.
- (4) I can solve story problems about addition and subtraction involving money.
- (5) I can add and subtract 2 and 3-digit numbers with and without regrouping by the using the place value/money mat.

| Teacher's comment | 5 |
|---|--|
| | |
| NAMES CONTROL OF THE PROPERTY | and the same of th |
| | |
| | THE CONTROL OF THE CO |

Points of strength:

Points to improve:

Chapter

Sheet 12 on Lesson 71

2



1

Comp or

Activity (1) Color the even numbers in red and the odd numbers in yellow:

99

18

324

37

55

127

9



300













Activity 2 Write (even or odd) below each number:

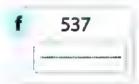
a 718

b 200

511

| d | 673 |
|---|-----|
| 1 | |
| | J |

e 99







Sheet 13 on Lesson 72



Activity 1 Write down 5 examples for adding doubles:

Example 3 + 3

= 6 an even number

= ____ an even number

= ____ an even number

an even number

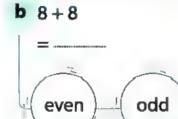
= ____ an even number

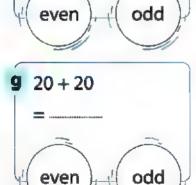
an even number

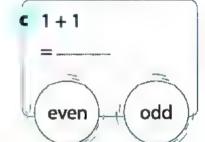
Activity (2) Find the result, then color to choose even or odd:

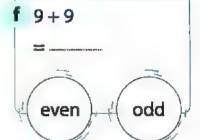


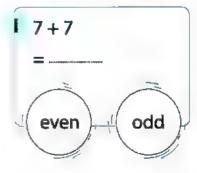












Sheet 14 on Lesson 73



Activity 1 Complete, then match:

Activity 2 Find the result, then color whether the answer is an even or odd number:



odd





a 4+2=____

even

even

b 6+3=

- ----

c 2+11=-

ven odd





odd



d 8+0=

e 0 + 5 =

f 10 + 10 =

even odd

even odd

ven odd



Sheet 15 on Lesson 74



Complete the following patterns:

b XYZ XYZ XYZ

C Assistantian designation of the contraction of th

f

a ABB ABB ABB

Sheet 16 on Lesson 75



Start with the given number, then create each pattern using the given rule:

a (+5)

60, and

b (+3)

92, ----- and ------

c (+10)

20, and and

d (+5)

83, and

Activity 2 Color the correct rule which is used in each pattern:

7

96, 98, 100 and 102

+20 +2

15, 20, 25 and 30

+5 +15

10, 20, 30 and 40

+10 +1

50, 53, 56 and 59

+30 | +3



Sheet 17 on Lesson 76

Activity (1) Complete the pattern by identifying the rule:

b 95,90,85, Rule:

c 42,38,34, Rule:

d 23,21,19, and Rule:

Start with the given number, then create each pattern using the given rule:

a (-6). 64 , and and

c (-5) and and

d (-10). and

e (-2). and and

Sheet 18 on Lesson 77



Activity 1 Complete the patterns by identifying the rules:

Rule:

Rule:

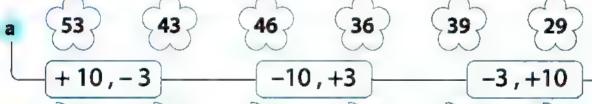
Rule:

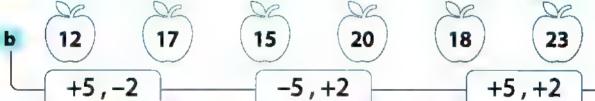
Rule:



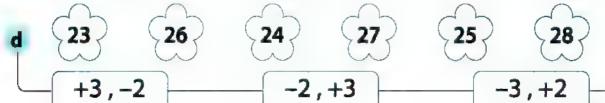
Rule:

Activity 2 Circle the correct rule that represents each pattern:







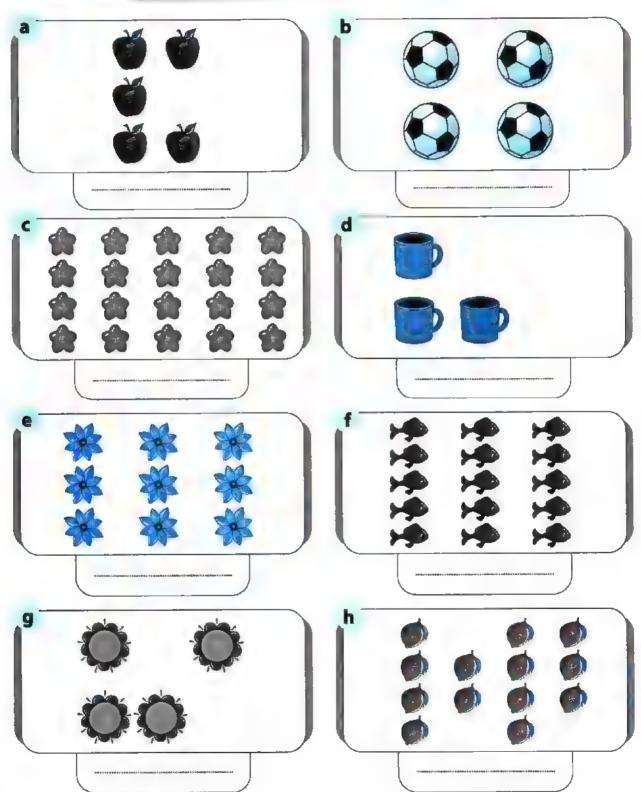




Sheet 19 on Lesson 78

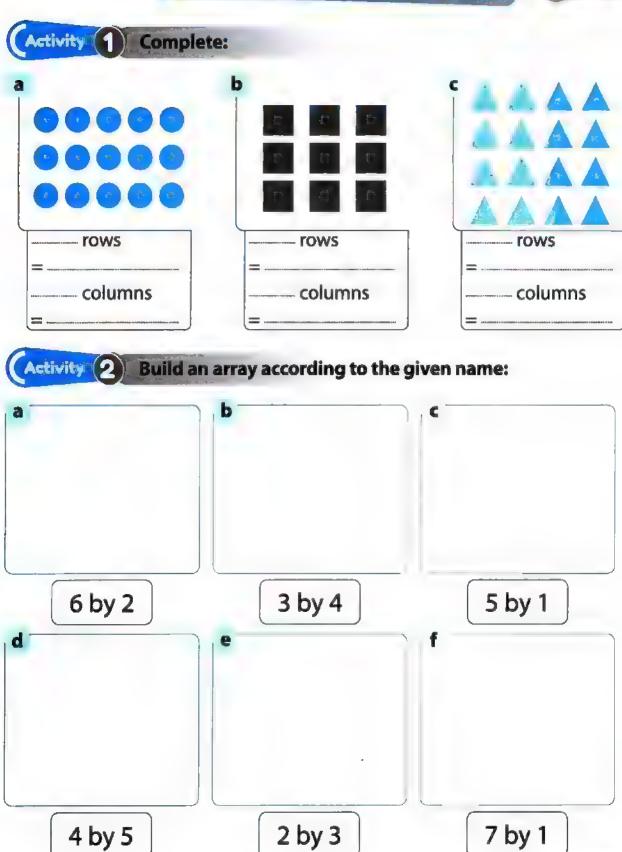


Look at the following figures, then write whether it is an array or not array:



Sheet 20 on Lessons 79 & 80





Sheet 21 on Chapter 2



Add, then underline the correct word (even or odd):

$$21 + 6 =$$

odd

C

.....

odd

b

Dec. SALE

odd

and series

odd

Create the pattern using the shown rule:

a Rule



TOTO CO-O

33



b Rule

CEST CO.

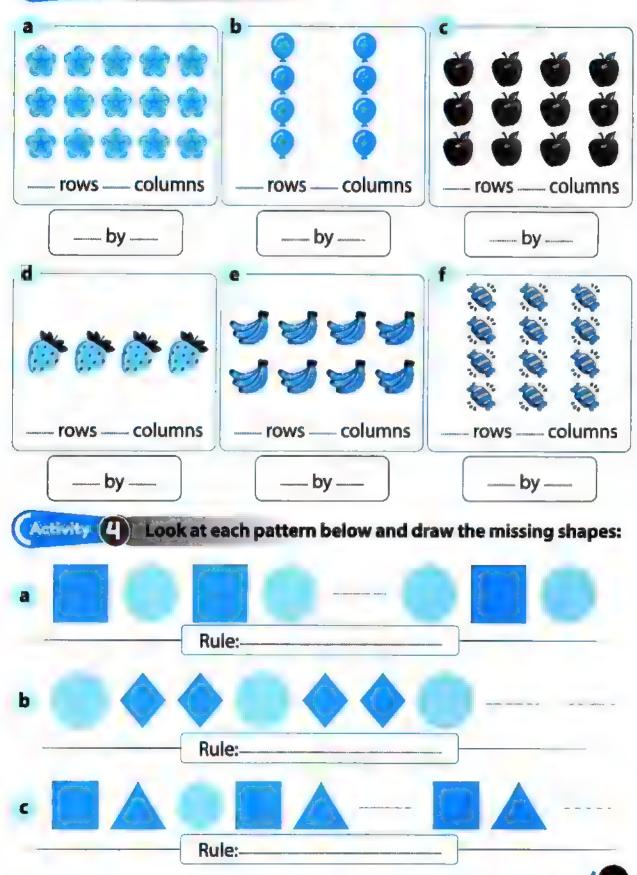
69



c Rule



Activity 3 Write the name of each array:



Assess Your Progress

- (1) I can determine whether a number is even or odd.
- (2) I can determine whether doubling a number results an even or odd number.
- (3) I can add or subtract to extend a pattern.
- (4) I can create a pattern rule.
- (5) I can define and create an array.
- (6) I can write addition equations to express the total number of objects in an array.

| eacher's commo | ent 🔘 | | |
|--|---|--|-----|
| B) (E 10000000), of a 10000000 see submitted for the submitted is a 100000000 see absolute of submitted for the submitt | 000001 14000001 14100007 1400000000 1414000001 1404000001 1404000001 140400000000 | administration of a minimal and and and and and and a second and a second and and and and a debt debt and and and and and and and an administration and administration administration administration and administration administrati | |
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| | | | |
| | •• | | |
| Points of strength: | , 1940-1944, 1944, 1944, 1944, 1944, 1944, 1944, 1944, 1944, 1944, 1944, 1944, 1944, 1944, 1944, 1944, 1944, 1 | | |

Points to improve:

Sheet 22 on Lesson 81







Use front-end strategy to estimate the addition or subtraction, then find the actual result:

Estimate using front-end strategy, then match:

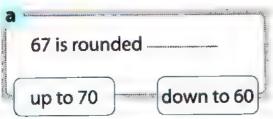
0

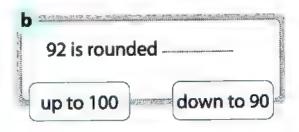
Sheet 23 on Lesson 82

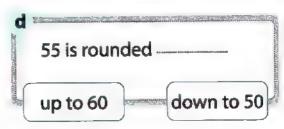
Activity 1

up to 90

Color the correct estimation for the following numbers using rounding strategy:







Estimate the difference or the sum using rounding strategy, then find the actual result:

down to 80

Sheet 24 on Lesson 83

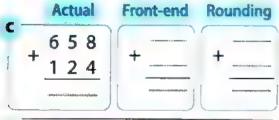
Activity 1 Round the following numbers to the nearest hundred:

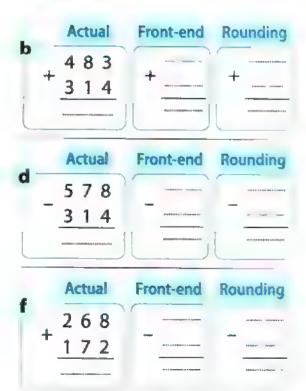
- a 380 is closer to
- 170 is closer to
- e 908 is closer to
- 9 535 is closer to
- 444 is closer to

- b 290 is closer to
- d 117 is closer to
- f 886 is closer to
- h 121 is closer to
- j 749 is closer to

Activity 2 Estimate the difference or the sum using rounding and front-end strategies, then find the actual result:

| | Actual | Front-end | Rounding |
|---|---|-----------|-------------|
| d | 781 | | |
| _ | 3 2 2 | | NA LANGUAGE |
| | *************************************** | | |
| | Actual | Front-end | Rounding |







Sheet 25 on Lessons 84 & 85



Add each of the following by drawing using the place value mat:

72

18

| Tens Ones Tens Ones Tens Ones | |
|--|---|
| | 1 |
| SERVICE STATE OF THE SERVICE S | 4 |
| 4000 | |
| | |
| | |
| | |

b

34

27

| | Tens | Ones | |
|----------------|------|------|--|
| | | | |
| - | | | |
| | | | |
| ļ | | | |
| | | | |
| d) formal fine | | | |

+

Ones Tens

=

Add each of the following:

$$d + 46 + 28 =$$

Sheet 26 on Lessons 86 & 87



Activity 1

Add each of the following by drawing using the place value mat:

a :

72

+

53

=

| Tens | Ones | | Tens | Ones | | Hundreds | Tens | Ones |
|---|------|---|--|------|---|----------|------|------|
| | | | | | | | | |
| | | + | 00-00-00-00-00-00-00-00-00-00-00-00-00- | | = | | | |
| | | | 80 00 00 00 00 00 00 00 00 00 00 00 00 0 | | | | | |
| | | | | | | | | |
| And according to the control of the | | + | | | = | | | |

Ь

58

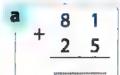
+

51

=

| Tens | Ones | , , | Tens | Ones | | Hundreds | Tens | Ones |
|---|--|-----|------|------|---|---|------|------|
| | | | | | | 193 194 194 194 194 194 194 194 194 194 194 | | |
| *************************************** | | + | | | _ | ++++++++++++++++++++++++++++++++++++++ | | |
| | | T | | | - | | | |
| | 4-44-44 PARISAN PARISA | | | | | | | |
| | | | | | | | | |

Activity 2 Add each of the following:





Sheet 27 on Lesson 88



Use 100, 10 and 1 on the place value mat to add the following problems:

| Hundreds | Tens | Ones | | Hundreds | Tens | Ones |
|----------|-------------------------|---------------|---|----------|------|------|
| 100 100 | 10 10 10 10 10 10 | ①① ①① ① | - | 100 | | |

| Hundreds | Tens | Ones | | Hundreds | Tens | Ones |
|----------|------|--------|---|----------|------|--|
| | | | | | | |
| **** | | | | | | |
| | | | + | | | Mary Control of the C |
| | | | | | | |
| | | 174000 | | | | |

| Hundreds | Tens | Ones | | Hundreds | Tens | Ones |
|---|------|------|---|---|------|------|
| | | | | | | |
| | | | | | | |
| | | | + | | | |
| | | | • | | | |
| 4 d d d d d d d d d d d d d d d d d d d | | | | 111111111111111111111111111111111111111 | | |
| | | | | | | |
| | | | | 1 | | |

Sheet 28 on Lesson 89



Activity 1 Solve the following problems:

Activity 2 Find the result, then match:



Sheet 29 on Lesson 90





Check the result of each of the following using (\checkmark) or (X), then correct if there is a mistake:

Using front-end estimation

678 + 115 is 700



b Rounding 690 up is 800



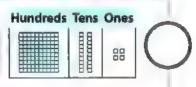
d The sum of 16 + 20 is an odd number



Round to estimate

780 - 150 is 500





Complete to reach the answer:

Sheet 30 on Chapter 3



Activity 1 Estimate, then write the actual sum or difference:

a Actual

Estimation

| , | | | |
|---|----|-----------|--|
| | Ву | front-end | |

By rounding

| b | | A | ctu | Ja | ١ |
|---|---|---|-----|----|---|
| | | | | 9 | 8 |
| | _ | | 7 | 7 | 3 |

Estimation

By front-end

By rounding

c Actual

Estimation

By front-end

By rounding

Actual

Estimation

By front-end

By rounding

Activity 2 Add each of the following using the place value mat:

Tens

a

Tens

+

+

Ones

45

-

Ones

| | Hundreds | Tens | Ones |
|---|----------|------|------|
| | | | |
| | | | |
| = | | | |
| | | | |
| | | | |

b

+

Activity 3 Add:

Activity 4 Choose the correct answer:

a Round to estimate 635 - 199 is

b Using front-end to estimate 325 + 156 is

c Round to estimate 198 + 76 is

d The actual sum of 674 + 183 is

e The actual sum of 237 + 56 is _____

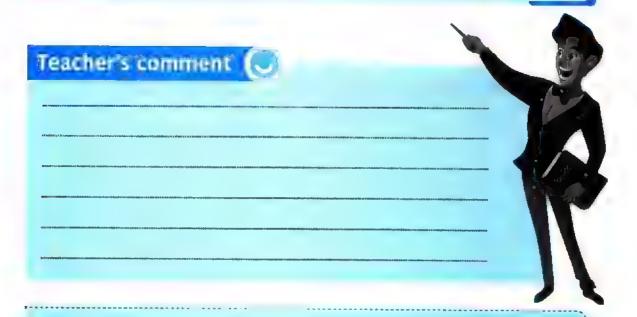


Assess Your Progress

- (1) I can apply front-end estimation strategy.
- (2) I can round two 2-digit numbers to estimate their sum and their difference.
- (3) I can add 2-digit numbers with regrouping.
- (4) I can add two 3-digit numbers with regrouping.
- (5) I can use the place value mat to regroup and add.
- (6) I can round the 2-digit numbers to the nearest 10 and the 3-digit numbers to the nearest 100.
- (7) I can detect errors and fix them.

Points of strength:

Points to improve:



.....

Sheet 31 on Lesson 91

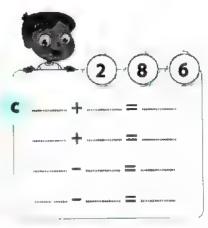


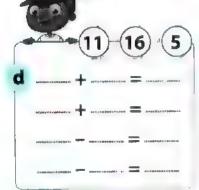


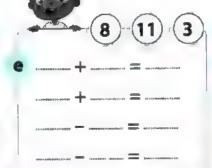


Activity 1 Write the fact family for each group of the following numbers:

| - | 5 12 7 | |
|---|--|--|
| a | Physicianometrical Schoolschildrenen in White congressed | |
| ٢ | Manifestation with constitutional in the constitution of the const | |
| ı | 4800013110000141100 TO IESOMONTITUDE ESMANORHISMONIS | |
| 1 | _ | |









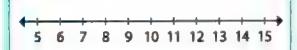
(Activity 2) Find the missing number in each fact family:

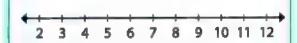
Sheet 32 on Lesson 92

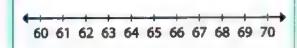


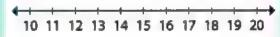


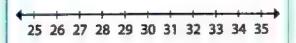
Activity Subtract using the number line:

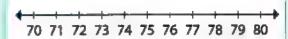












Sheet 33 on Lesson 93

Activity



Read, think, then solve:

Rana spent L.E. 76 in the supermarket. How much money left with her if she had L.E. 99 in her wallet?

The left money = ______ = L.E. ____



b Ammar bought 28 cupcakes for his friends in the class. He found that 11 friends were present.

How many cupcakes will be left with him?

The left cupcakes =

= ___ cupcakes

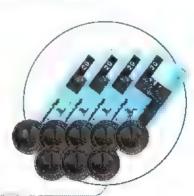


Lojine had L.E. 88, then she lent her sister
 Noha L.E. 37.

How much money will be left with her?

The left money =

= L,E, -----



d Ahmed had 86 bananas, his friends ate 32 of them. How many bananas left with Ahmed?

The left bananas =

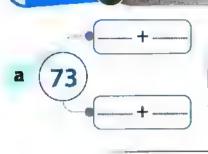
= ____ bananas



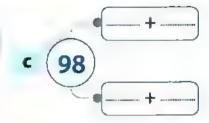
Sheet 34 on Lesson 94



Activity Decompose each of the following numbers by 2 different ways:









Activity 2 Choose the correct decomposing that represents each number:

Sheet 35 on Lesson 95



Activity Solve each cluster problem:

Then

Then)

Then

Filtra

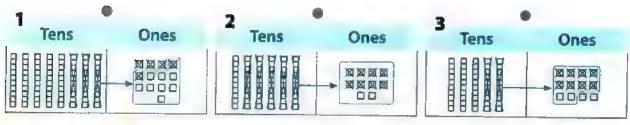
Then

finen:

Sheet 36 on Lesson 96



Solve the following problems, then match:



Estimate the following problems using both rounding and front-end estimation, then find the actual result:

a 53 - 46 =

| Tens | Ones |
|------|------|
| | |
| | |
| | |

Rounding

Front-end

b 70 - 18 = ____

| Tens | Ones |
|------|---|
| | Illinia 1845 |
| | N Carlotte |
| | 777777 |
| | Para Para Para Para Para Para Para Para |

Rounding

Front-end

c 63 - 47 = ____

| Tens | Ones |
|------|------|
| | |
| | |
| | |
| | |

Rounding

Front-end



Sheet 37 on Lesson 97



Estimate the following problems using rounding and front-end estimation, then find the actual result:

a 232 - 115 =

| Hundreds | Tens | Ones | Rounding |
|----------|------|--|--|
| | | | Front-end |
| | | ************************************** | ************************************** |

b 160 - 137 = ----

| Hundreds | Tens | Ones | Rounding |
|---|------|------|---|
| *************************************** | | | Front-end |
| | | | *************************************** |

c 245 - 106 = ____

| ı | Hundreds | Tens | Ones | Rounding |
|---|----------|------|--|--|
| | | | the representation of the second seco | Front-end |
| | | | | salendama eta cumba esa cumba a combina a sa cumba a sa |

d 350 – 238 =

| Hundreds | Tens | Ones | Rounding |
|---|---|--|--|
| Property of the second | | The second secon | Front-end |
| | *************************************** | | (p) is developed as immediated in priority and techniques and and a few and developed as a second and a few and a fe |

Sheet 38 on Lesson 98



Activity



Solve the following problems, then choose the correct estimation:

| Hundreds | Tens | Ones | Using rounding |
|----------|------|------|--------------------|
| 1 | | | ♦ 300 – 100 is 200 |
| | | | ♦ 400 – 100 is 300 |
| | | | ♦ 300 – 200 is 100 |

| : | Hundreds | Tens | Ones | Using front-end |
|---|---|---|------|--------------------|
| | | 1-1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2 | | ♦ 500 – 200 is 300 |
| | D. A. | | | ♦ 500 – 300 is 200 |
| | | | | ♦ 600 – 200 is 400 |

| C | 451 | - | 260 | = | |
|---|-----|---|-----|---|--|

| Hundreds | Tens | Ones | Using rounding |
|--|------|--|--------------------|
| SERVICE SERVIC | | TO THE PARTY OF TH | ♦ 500 – 200 is 300 |
| | | STEEL | ♦ 500 – 300 is 200 |
| | | | ♦ 400 – 200 is 200 |
| | | | |

| Hundreds | Tens | Ones | Using front-end |
|--|------|---|--------------------|
| 4-41-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4- | | 808888888888888888888888888888888888888 | ♦ 300 – 200 is 100 |
| Addition of the state of the st | | | ♦ 300 – 100 is 200 |
| The first control of the control of | | | ♦ 400 – 100 is 300 |
| | | | 1 |



Sheet 39 on Lesson 99

Solve the following problems:

$$-\frac{6}{3}\frac{5}{8}$$

Solve, then match the equal results:











Activity 3 Complete:

Sheet 40 on Lesson 100



Activity 1 Solve the following problems:

Activity 2 Solve, then choose the correct answer:

Sheet 41 on Chapter 4



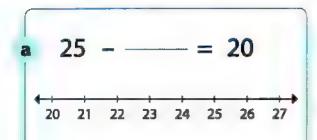
Activity 2 Read, think, then solve:

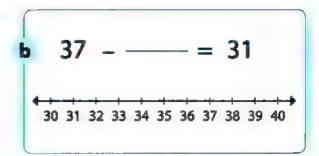
- Rasha has 177 marbles, her sister Mona has 150 marbles.How many more marbles does Rasha have than Mona?
- The number of pupils in a school is 654. If the number of girls is 250, how many boys are there in this school?

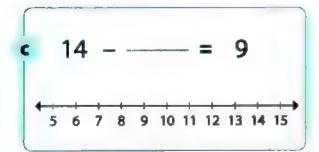
Activity (3) Subtract, then match:

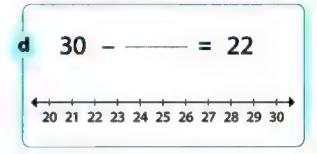
Activity 4

Use the number line to find the answer of the following problems:









Activity 5 Estimate the following problems using rounding and front-end estimation, then find the actual result:

a 782 - 145 = ----

| Hundreds | Tens | Ones |
|--|------|------|
| Parameter of the Control of the Cont | | |
| | | |
| Paraman and Parama | | |
| | | |
| 4.4 | | |

Rounding
Front-end

b 304 - 182 =

| Hundreds | Tens | Ones |
|---|------|------|
| ## ## ## ## ## ## ## ## ## ## ## ## ## | | |
| 44 21 20 44 44 44 44 44 44 44 44 44 44 44 44 44 | | |
| 11 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | |
| ###################################### | | |
| H 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | |

Rounding
Front-end

Assess Your Progress

- (1) I can create addition and subtraction sentences using fact families.
- (2) I can explain the relationship between addition and subtraction.
- (3) I can use the number line to subtract 2 numbers.
- (4) I can subtract 2 and 3-digit numbers with and without regrouping.
- (5) I can apply mental math strategies to subtratct by tens and hundreds.
- (6) I can apply mental math strategies to estimate the difference between 2 numbers.

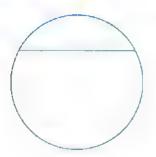
| Teuchers comment | |
|--|----|
| THE MATERIAL SHOWS THE SHO | |
| | 11 |
| *************************************** | 76 |
| Points of strength: | |

Sheet 42 on Lesson 101





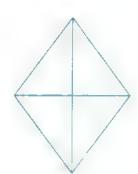
Color the shape that is divided into equal parts in blue and the shape that is divided into unequal parts in red:

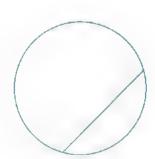




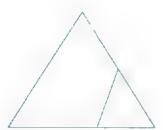








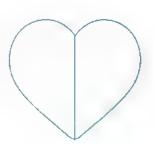














Sheet 43 on Lesson 102



Activity (1) Read, then build the required fraction:

a My numerator is 4, my denominator is 6



b My denominator is 5, my numerator is 2



 My denominator is 8, my numerator is 1



d My numerator is 3, my denominator is 7





Activity 2 Read, then match:

a A fraction, its numerator is 5, its denominator is 8



b A fraction, its numerator is 2, its denominator is 3



 A fraction, its numerator is 4, its denominator is 8



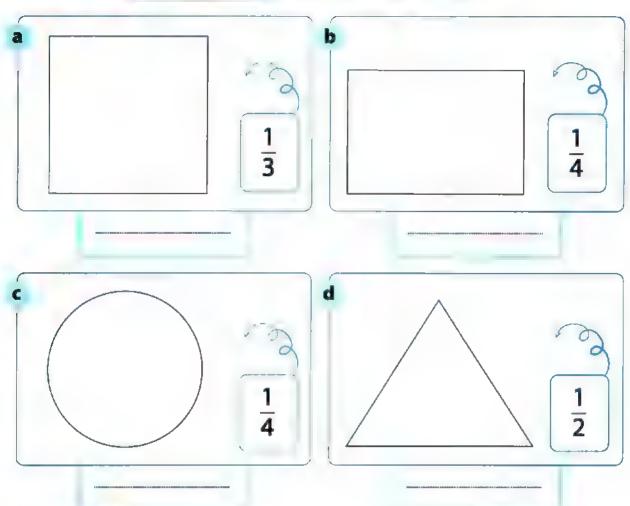
d A fraction, its denominator is 9, its numerator is 2



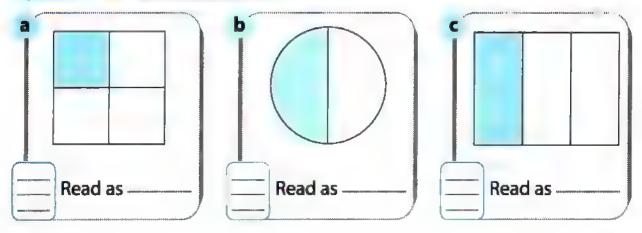
Sheet 44 on Lesson 103







Activity 2 Write the fraction that represents the shaded part:

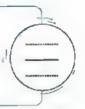


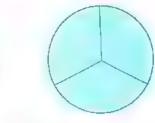
Sheet 45 on Lesson 104



Activity Find, then match:

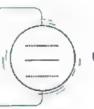
a I'm a fraction. My numerator is 1 and my denominator is 3.

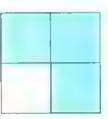




read as: -

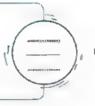
b I'm a fraction. My numerator is 3 and my denominator is 4.





read as: -

l'm a fraction. My numerator is 1 and my denominator is 2.





read as: --

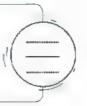
d I'm a fraction. My numerator is 3 and my denominator is 3.





read as: -

e I'm a fraction. My numerator is 2 and my denominator is 3.

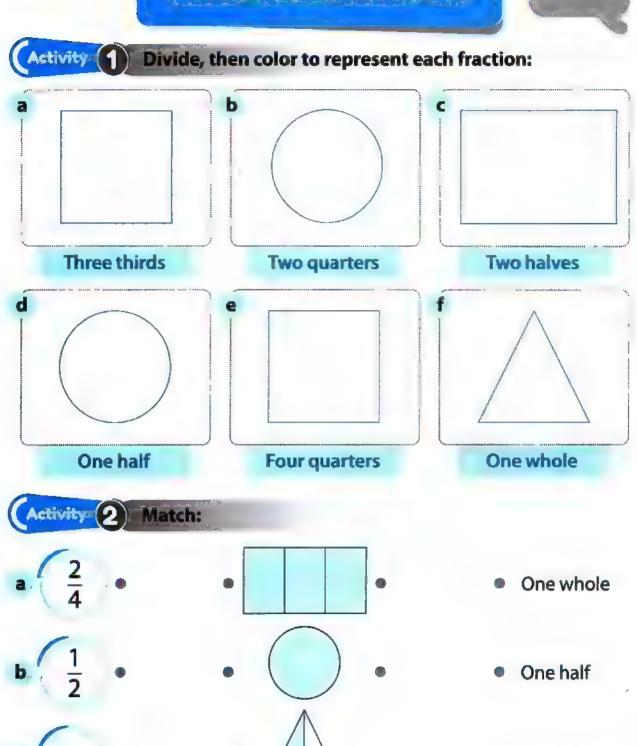




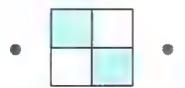


read as: --

Sheet 46 on Lesson 105









Two quarters



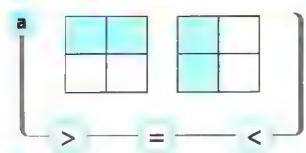


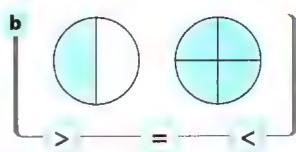
Sheet 47 on Lesson 106

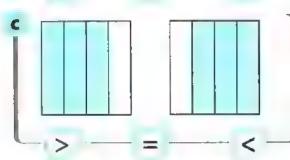


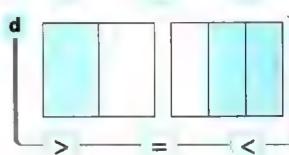


Notice the shaded parts, then color the correct sign:

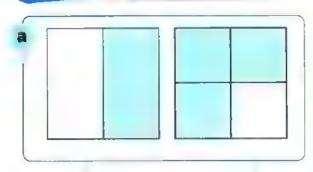


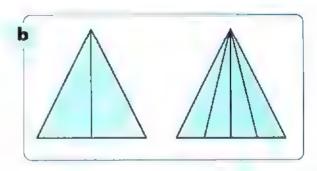


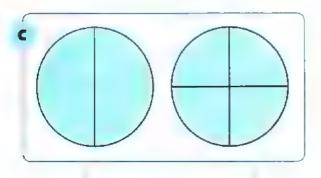


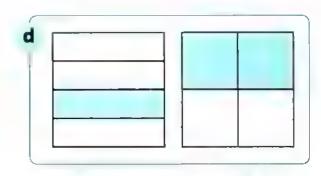


Activity 2 Notice the shaded parts, then write same or different:



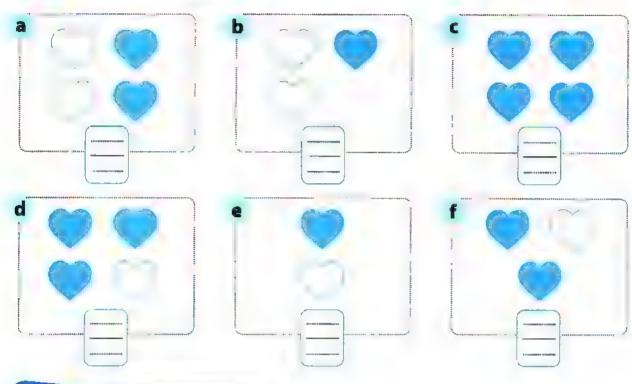




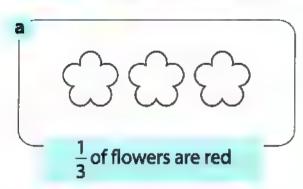


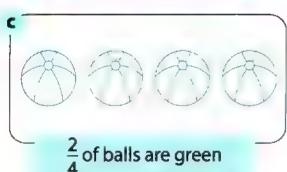
Sheet 48 on Lessons 107 & 108

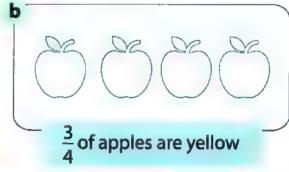


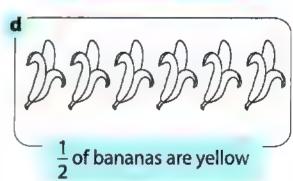


Activity 2 Color to show the fraction:









Sheet 49 on Lessons 109 & 110

Read, think, then solve:

a There are 3 chocolate bars in the box and Perry ate 2 of them. What is the fraction that represents the left chocolate bars?



b Hussien has 4 apples. He gave 2 of them to his brother Hassan, what is the fraction that represents the left apples with Hussien?



There were 4 crayons with Laila in her bag, 3 of them were blue, what is the fraction that represents the crayons that aren't blue?



d Sara bought one orange, two strawberries and one pear.
What is the fraction that represents the fruits that aren't strawberries?



Read, then color the correct answer:

a Rawan had 4 cupcakes.
She gave 1 to her sister.
What is the fraction that represents the cupcakes which are left with Rawan?





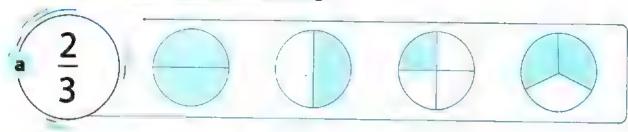
b Mohamed had 3 scoops of ice cream, two of them are vanilla, what is the fraction that represents the scoops that aren't vanilla?

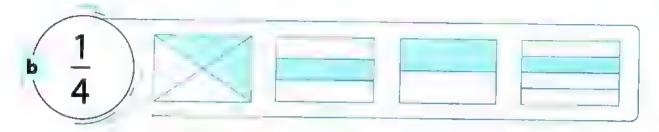


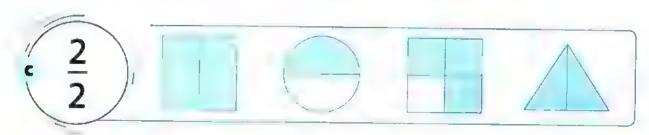
Sheet 50 on Chapter 5



Circle the shapes that represent the shown fraction in each of the following:







Read, then color the correct fraction:

A fraction, its numerator is 1
 and its denominator is 4

 $\frac{1}{2}$ $\left[\frac{1}{4}\right]$ $\left[\frac{1}{3}\right]$

A fraction, its numerator is 2 and its denominator is 3

 $\frac{1}{3}$ $\frac{2}{3}$

b A fraction, its numerator is 2 and its denominator is 4

 $\frac{2}{3}$ $\frac{1}{4}$ $\frac{2}{4}$

d A fraction, its numerator is 1 and its denominator is 3

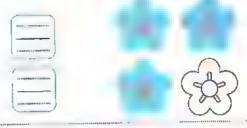
 $\frac{1}{2}$ $\frac{2}{3}$ $\frac{1}{3}$



- - What fraction shows big balls?



- **b** \diamond What fraction shows colored flowers?
 - What fraction shows uncolored flowers?



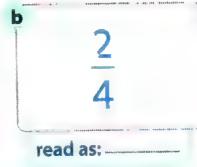


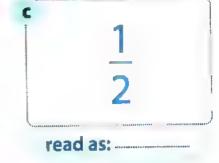
Aser has a pizza cut into 4 equal parts, he gave his sister 2 parts.

What is the fraction that represents the left parts?

Activity (5) Read the following fractions:













- (1) I can identify equal and unequal parts of a whole.
 (2) I can create halves, thirds and fourths.
 (3) I can investigate fractions with a numerator greater than 1.
 (4) I can identify and write fractional parts of a set.
 (5) I can solve story problems involving fractions.
- Points of strength;

Points to improve: -

Chapter

Sheet 51 on Lessons 111 & 112





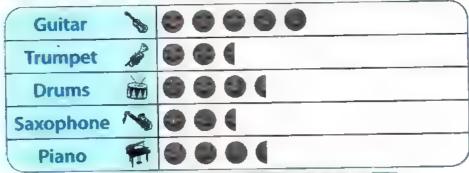




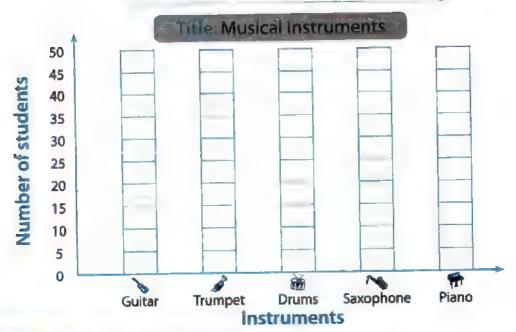


Read, then answer:

The following pictograph shows the number of students who like each musical instrument. Use these data to form a bar graph:



Key: each nepresents 10 students each represents 5 students



Solve the following questions:

- Which instrument is liked the most?



How many students liked more than ??



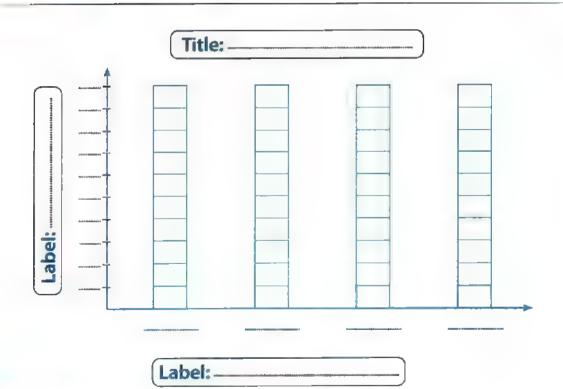
Sheet 52 on Lesson 113



Activity Read, then answer:

Use the following data to form a pictograph and a bar graph about favorite snacks for some children:

| Title: | Almond | Hazelnut |
|-----------|-------------|-------------|
| Hazelnut | 8 children | 10 children |
| Aimond | | |
| Peanut | Pistachio | Peanut |
| Pistachio | 8 | |
| Key: | 10 children | 14 children |



- a Which snack is liked the most?
- **b** Which snack is liked the least?



Sheet 53 on Lessons 114 & 115

Write the name of each array and express it using addition sentence:

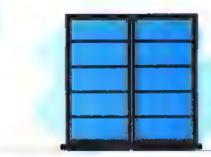


Array is called

...... by

Addition sentence:

| * | -uf()fors [supplessor) [supplessor [supplements of the content of | = | N+14EM000HE+14BH99 |
|----------|---|---|--------------------|
| • | | | |



Array is called

меньения by вымычения выпуска

Addition sentence:

Activity 2 Draw each array according to its name, then complete:

| | · |
|-----------|-----|
| | |
| 3 by 5 | |
| Rows Colu | mns |

4 by 6

Rows

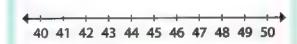
Columns

Sheet 54 on Lesson 116



Activity 1 Solve the following problems using the place value mat:

Activity (2) Solve the following problems using the number line:



Activity 3 Solve the following problems:



Sheet 55 on Lesson 117

Activity



Read, think, then solve:

Sara's mother made 14 cookies on Sunday, on Monday she made 27 cookies. How many cookies did she make during the 2 days?

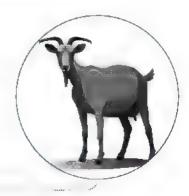


In a fish tank there are 110 small fish and 94 large fish. How many fish are there in the tank?

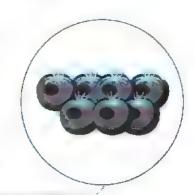
Tish. How many fish are there in the tank?



There are 328 goats walking over the bridge, 76 more joined them. How many goats are over the bridge in all?



d Rahim picked 625 tomatoes from the trees, Farid picked 206 tomatoes. How many tomatoes did they both pick?



Sheet 56 on Lesson 118



Solve the following problems using the number line:

Solve the following problems using the place value mat:

| b | 7 2 | Tens | Ones |
|---|---------------------------|---|------|
| | - <mark>7 2</mark> 4 9 | | |
| | | 77 5 1 1 1 1 1 1 | |
| | | 19 H | |
| | | =+++++++++++++++++++++++++++++++++++++ | |
| | | | |

Solve the following problems:

0

Sheet 57 on Lesson 119

Activity



Read, think, then solve:

There are twenty six players in Blue team and seventeen players in the Orange team.
What is the difference between the numbers of players in two teams?



b Selim is saving money to buy a guitar that costs
L.E. 190. If he already saved L.E. 135, how much
more money does he need to buy the guitar?

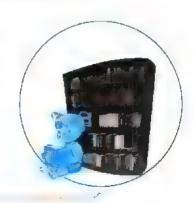


Captain Yassin is a pilot. If he flies 320 miles on Thursday and 550 miles on Friday.

How many more miles did he fly on Friday than Thursday?



d Farida bought a book which has 280 pages, if she has read 75 pages of the book, how many pages left for her to read?



Sheet 58 on Lesson 120



326 + 132

458

926 – 422

352

285 + 57

521

342 + 179

872

742 – 609

Activity

Solve, then color the result to choose the correct route through the maze to help Ammar reach his home:

221

504

342

523



Start

641

342 + 85

427

259 - 167

92

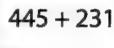
466 – 288





748







341 - 120

231



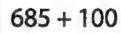












111







950



133

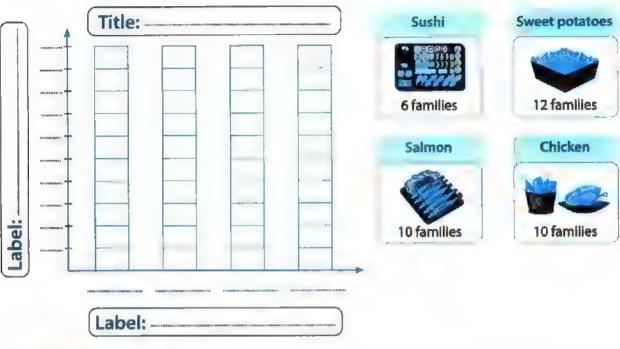




Sheet 59 on Chapter 6



Use the given data to create a bar graph about the favorite food for some families:



Activity 2 Read, then answer:

Use the above data to create a pictograph about the favorite food for some families:

| Sushi | |
|----------------|--|
| Sweet potatoes | |
| Salmon | |
| Chicken | |

Activity (3) Choose the correct answer:

The parrot has 25 red feathers, it has also 16 green feathers. How many colored feathers does it have in all?

♦ 31

♦ 9 ♦ 41

Rahma has 105 marbles, Laila gave Rahma some more marbles so, now she has 200 in all. How many marbles did Laila give Rahma?

♦ 95
♦ 305

♦ 105

 Which sentence is represented by the following number line?

30 31 32 33 34 35 36 37 38 39 40

4 35 + 5

♦ 35 – 5

4 30 + 4

d The addition sentence which represents the following array



 $\diamond 2 + 2 + 2 + 2$

 $\diamondsuit 5 + 5$

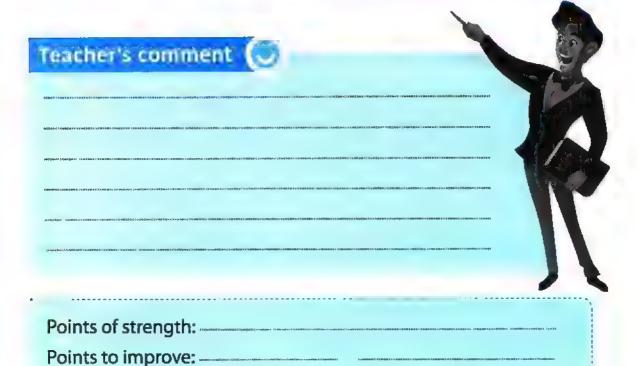
Activity (4) Draw to complete creating each of the following arrays:

5 by 2

2 by 4

Assess Your Progress

- (1) I can interpret data in bar graph with a scale of (5) or (10).
- (2) I can interpret data in pictographs with a scale of (2) or (5).
- (3) I can organize data on bar graph and solve problems using these data.
- (4) I can identify and create arrays with given rows and columns.
- (5) I can solve story problems for addition and subtraction equations using different strategies.
- (6) I can write repeated addition sentences to express the total number of objects in an array.



Assessment Assessment

Part 2)



O 10 Final Sheets on the 2nd Term

Worksheet /



Write the value of each banknote:

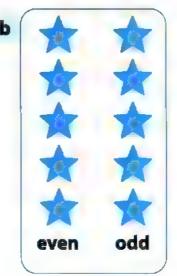






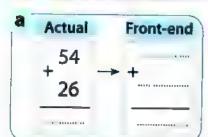
Add or subtract using the number line:

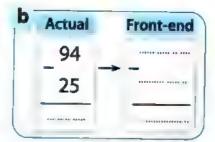
Circle the pairs of each object, then count and underline even or odd:

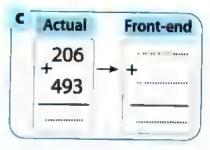




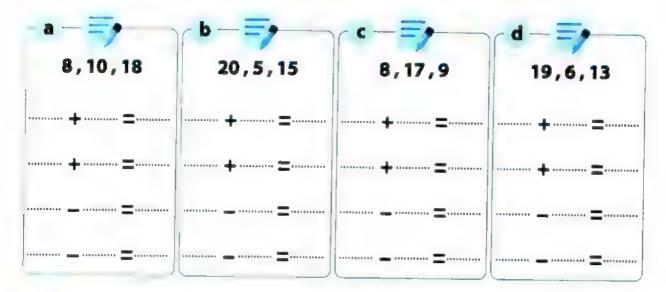
Use front-end strategy to estimate, then find the actual result:



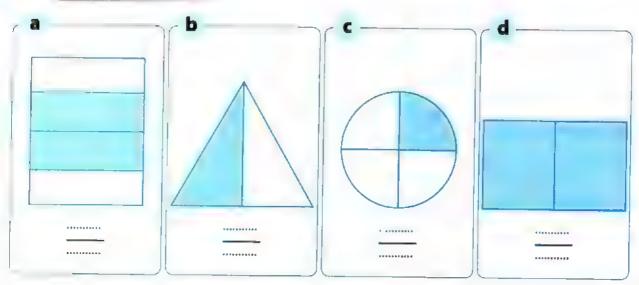




Write the fact family of each of the following numbers:

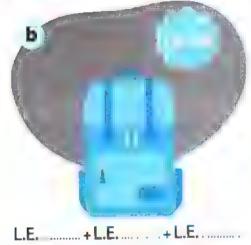


Notice the shaded part, then write the fraction that represents each shape:



Make a combination of banknotes to get the price of each object:





2 Complete the pattern and write its rule:

a 13 15 17 19 0 0 0

Rule

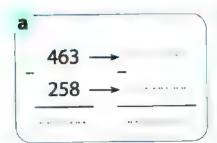
b 35 30 25 20 O O O

Rule

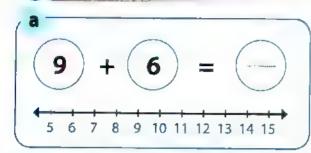
c 40 50 45 55 0 0 0

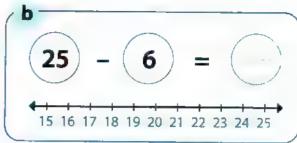
Rule

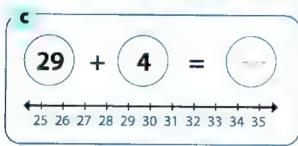
Round to estimate, then find the actual result:

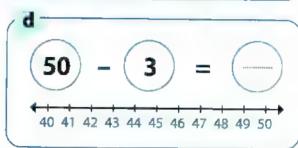


Subtract or add using the number line:

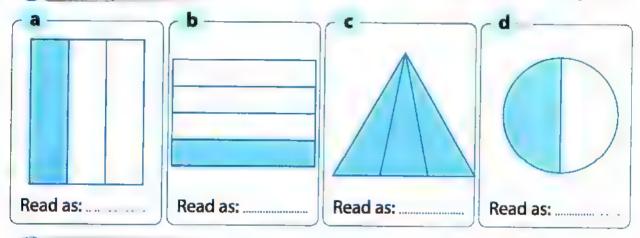




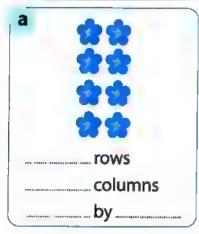


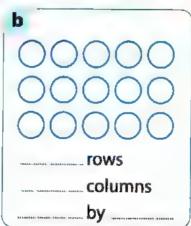


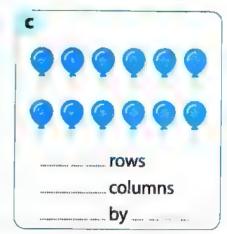
Write the name of each fraction that represents the shaded parts:



Complete, then write the name of each of the following arrays:



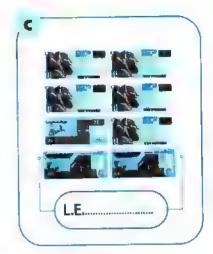




Write the total sum of each amount of money:







Complete the pattern using the given rule:



Rule +3,-1

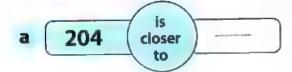


Rule -7

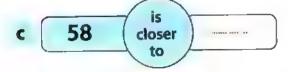


Rule +2,-5

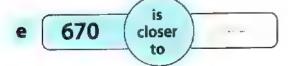
Round to the nearest tens or hundreds:

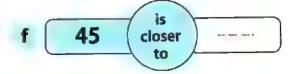


b 190 (is closer to



d 386 closer to

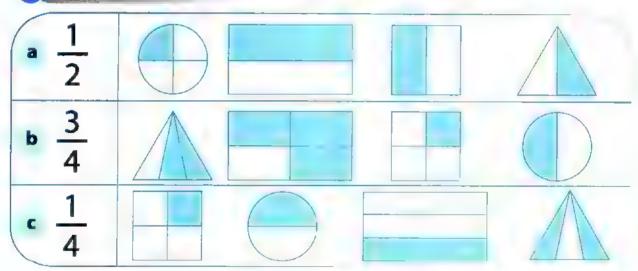




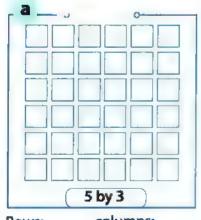
| 70, 10 100 | t. c. | | |
|------------|--------|------|--------|
| (4) Read, | think, | then | solve: |

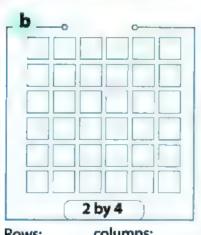
- a A baker made 79 cupcakes. He sold 46 of them. How many cupcakes are left?
- **b** Mona had L.E. 156, then her mother gave her L.E. 25 more. How much money with Mona now?

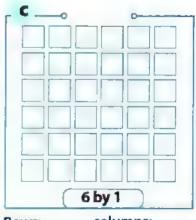
Circle the shapes that show the fraction in each row:



6 Color to create the array according to its name, then complete:







Rows: ____ columns: ____

(1) Circle the group of banknotes that can be used to buy each object:

a



b



L.E. 208















| a | Н | T | 0 |
|---|---|-------------|---------------|
| | 4 | 2 | 7 |
| + | 2 | 8 | 5 |
| | | er objec de | nga, e rendar |

| b | Н | T | 0 |
|----------|--------------|---------|---|
| | 1 | 4 | 6 |
| + | | 7 | 8 |
| <u> </u> | ole II 1 2 4 | \$ - A1 | |

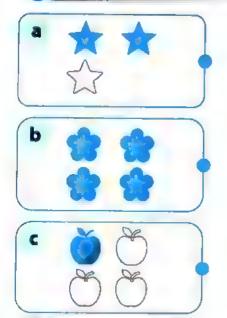
| c | Н | T | 0 |
|---|---|----------|---|
| | 3 | 0 | 6 |
| + | 4 | 8 | 7 |
| | | 181 1811 | |

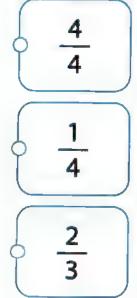
Color the even numbers in red and the odd numbers in blue:

Solve each cluster problem:

| _ c —∘ | 0 |
|-------------|-----|
| 95 – 10 = | - |
| 95 – 20 = | |
| 95 – 30 = | |
| 95 - 35 = | ٠ |
| Then | |
| 95 – 37 = - | - · |

Match the fraction of colored objects:





Read, think, then solve:

- a · Ali has 438 marbles. He gave his sister 160 marbles. How many marbles are left with Ali?
- b Salah saw 63 birds on the tree. If 56 more birds joined them, how many birds were there on the tree?

Circle the object you can buy according to the money you have:

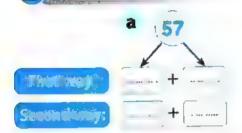


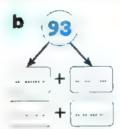


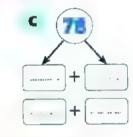




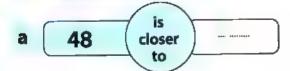
Decompose each of the following numbers using 2 ways:



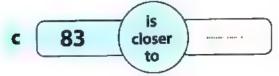


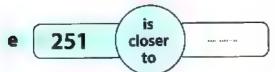


Round each of the following to the nearest tens or hundreds:











Find the missing numbers to complete each of the following fact families:

a (18) (13)

$$+ 13 = 18$$

Build the fraction in each of the following:

a A fraction, its numerator is 2 and its denominator is 3



b liveston, excommenter (a.) and malemonical and 3.



A fraction, its numerator is 3 and its denominator is 4



Solve each of the following:

175 + 356 =









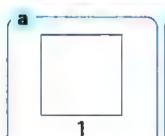
Draw the units of banknote to create the total amount:

L.E. 28

L.E. 200

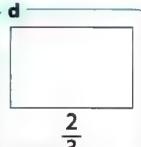
L.E. 125

Divide, then color the following shapes to represent the given fractions:









Add, then circle the correct word (even or odd):

even

odd

$$6 + 3 =$$

even

odd

even

odd

even

odd

$$7 + 2 =$$

odd

even

odd

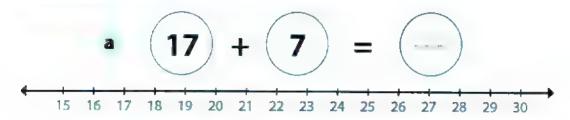
even

odd

even

odd

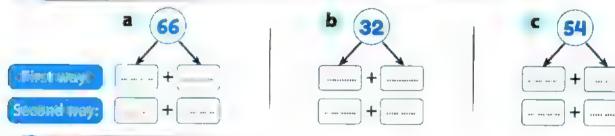
Add and subtract using the number line:





15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

Decompose each of the following numbers using 2 ways:



6 Read, think, then solve:

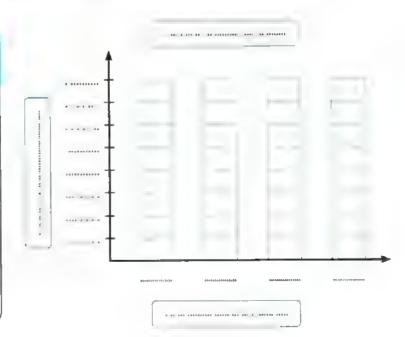
- Mariam collected 267 flowers and Noha collected 159 flowers.
 How many more flowers did Mariam collect than Noha?
- b Yara has 4 candies. She gave 3 candies to her sister Sara.
 What is the fraction of candies Yara has now?

Read, think, then solve:

- a Ramy has L.E. 32 and Yassmin has L.E. 56. How much money do both of them have?
- **b** Walid has L.E. 426 and Karima has L.E. 373. What is the difference between the amounts of money they both have?
- Match each pattern to its rule:
- a 7,9,8,10,9,11 and 10
- **b** 4,8,6,10,8,12 and 10
- c 5,3,6,4,7,5 and 8

- ϕ -2,+3
 - 5 +2,-1
- Use the given data which represents the favourite fruit for some children to form the following bar graph:

| Type of fruit | Number of children |
|---------------|--------------------|
| Apples | 8 |
| Grapes | 10 |
| Bananas | 8 |
| Kiwi | 12 |



Complete by decomposing numbers:

$$94 = 90 + \dots$$

$$94 = \cdots + 50$$

$$94 = 20 + \cdots$$

$$---+10 = 34$$

$$---$$
 + 30 = 34

$$65 = \cdots + 15$$

$$65 = 30 + \cdots$$

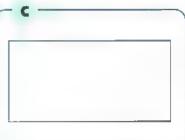
$$65 = 40 + \cdots$$

Draw lines to divide each rectangle, then color to represent 5 the given fractions:



→ Two fourths
→

→ Four fourths →



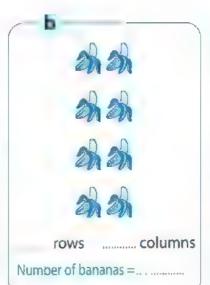
¬Three fourths →

6 Complete:



..... rows columns

Number of balls =

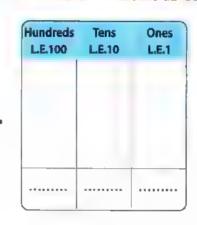




Solve the following problem using the place value/money mat:

L.E. 453 + L.E. 242





| Hundreds L.E.100 | Tens L.E.10 | Ones L.E.1 |
|---------------------|----------------|---------------|
| | | |
| | | |
| 1 | | |
| | | |

Complete the pattern:



Round each number to the nearest hundred, then find the actual result:

| C | |
|-----------------|--------------------|
| 465 | 1 ** ***** ** **** |
| + 383 → | + |
| V. hhhhvoroso + | 171110100100100001 |

Notice, then answer the questions:



a What is the fraction of colored balloons?



b What is the fraction of uncolored balloons?

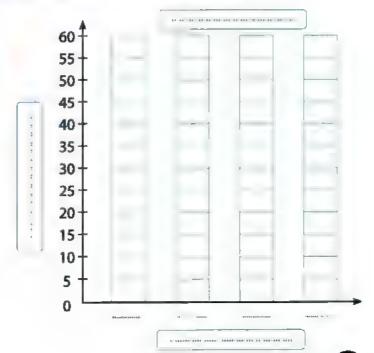
| _ | | |
|---|---|-----|
| | | -) |
| 1 | - | |

Read, think, then solve:

- a Noha has 618 pounds and Sara has 230 pounds. What is the difference between their amounts?
- **b** Nora had 4 candies. She gave her sister one candy. What is the fraction that represents the left candies with Nora?

Use the data in the table to complete the bar graph:

| Favorite animals | |
|----------------------------|----|
| Animals Number of children | |
| Lion | 25 |
| Giraffe | 30 |
| Elephant | 45 |
| Zebra | 15 |





Solve the following subtraction problems using the place value money mat:

L.E. 78 - L.E. 36 = L.E.

| Ter | ns | Ones | |
|------|----|--------|--|
| L.E. | 10 | L.E. 1 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Tens L.E. 10 | Ones L.E. 1 |
|-----------------|----------------|
| L.E. 10 | L.E. I |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Round to estimate the difference, then match:

a 91 - 72

b 66 - 39

C 76 - 68

|) | 1 | 0 |
|---|---|---|

20

30

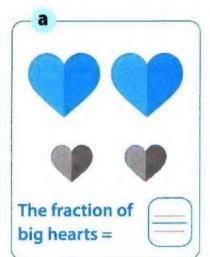
Use the given data to form a pictograph:

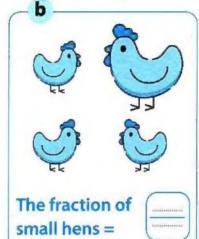
| red | |
|--------|------|
| blue | |
| purple | |
| pink | |
| | Key: |

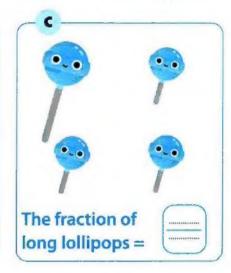
| Favorite color | |
|----------------|--------------------|
| Color | Number of children |
| red | 20 |
| blue | 35 |
| purple | 50 |
| pink | 60 |

Decompose each number in 2 different ways:

Write the fraction:







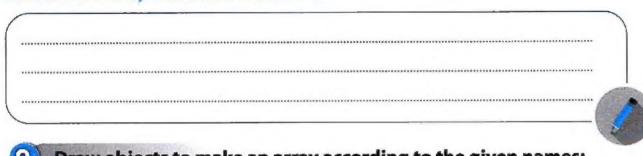
- Read, think, then solve:
 - a Tamer has 519 pounds. Amgad has 340 pounds. What is the difference between their amounts?
- **b** Rania baked 312 vanilla cookies and 91 choclate cookies for her school party. How many cookies did she bake in all?



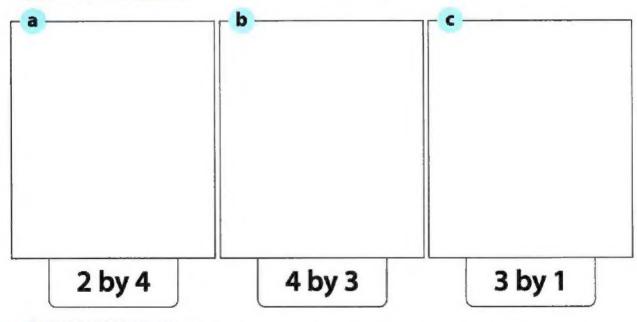
Read, think, then solve:

Mona has L.E. 330. She wants to buy a dress which costs L.E. 225.

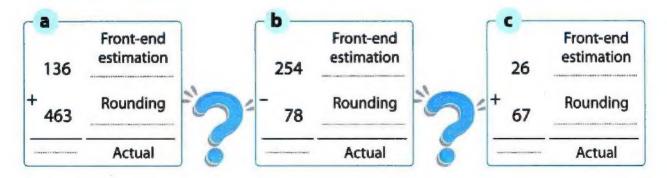
How much money will remain with Mona?



Draw objects to make an array according to the given names:



Estimate and round, then write the actual sum or difference:



Tick if the result is correct and tick if the result is incorrect:

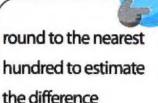
a If you

round to the nearest ten to estimate the sum 78 + 36

The result is

$$80 + 40 = 120$$

b If you

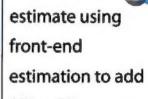


326 - 204

The result is

$$300 - 200 = 100$$

c If you



$$180 + 60 = 230$$



Build the fraction:

a A fraction, its numerator is 2 and its denominator is 4

is



b A fraction, its numerator is 3 and its denominator is 4

is



A fraction, its denominator is 3 and its numerator is 2

is



6 Add or subtract using any strategy you have learned:

580 – 269 **=**

C

d